SERV. 3217

Colour television Chassis MK2

Service
Service
Service

Service Manual

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GB 4822 727 18824

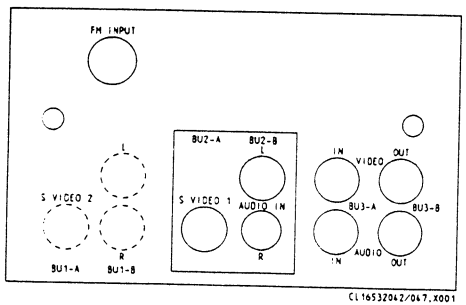
PHILIPS

PHILIPS

Connecting Facilities

Specification of the terminal sockets

REAR



FRONT

3.5mm 2x8Ω; 20mW

S-VHS (S VIDEO 1/2)

1 - ⏚
2 - ⏚
3 - Y: ⟵ $1V_{pp}/75\Omega$
4 - C: ⟵ $285mV_{pp}/75\Omega$

S-VHS AUDIO

Cinch Audio⟵ 0,5V RMS ≥ 10kΩ

CINCH VIDEO

Cinch CVBS ⟵ $1V_{pp}/75\Omega$

Cinch CVBS ⟶ $1V_{pp}/75\Omega$

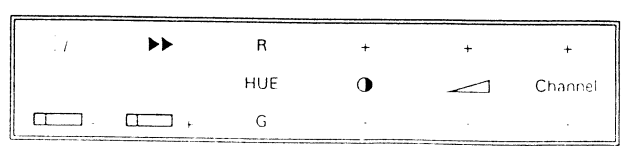
CINCH AUDIO

Cinch Audio⟵ 0,5V RMS ≥ 10kΩ

Cinch Audio ⟶ 0,2-2V RMS ≥ 10kΩ

Technical data

Mains voltage	: 150-276 V ; 50/60 Hz (±5%) : 90-276 ; 50/60 Hz (±5%) (for multivoltage)
Power cons. at 230V~	: 21" 60W (stand-by ≤ 10W) : 25" 75W (stand-by ≤ 10W) : 28" 78W (stand-by ≤ 10W)
Aerial input impedance TV	: 75Ω - coax
Aerial input impedance FM	: 75Ω (/73 only)
Min. aerial input VHF	: 30µV
Min. aerial input UHF	: 40µV
Max. aerial input VHF/UHF	: 100mV
Aerial input FM	: 7µV (/73 only)
Pull-in range colour sync	: ± 300Hz (NTSC 3.58 : ± 250Hz)
Pull-in range horizontal sync	: ± 600Hz
Pull-in range vertical sync	: ± 5Hz
Picture tube range	: 21" A51JAR43X06MZW (Northern Hemisphere) : 21" A51JAR45X01MZW (Southern Hemisphere) : 25" A59JMZ140X01 (Northern Hemisphere) : 25" A59JMZ141X01 (Neutral) : 25" A59JMZ142X01 (Southern Hemisphere) : 28" A66JMZ40X03 (Northern Hemisphere) : 28" A66JMZ41X03 (Neutral) : 28" A66JMZ42X03 (Southern Hemisphere)
	: 4W; 20Hz-14kHz
TV Systems	: /50/52/75/79: PAL BG : /73: PAL I : /58/59/62: PAL/SECAM BGDK : /56: PAL/SECAM BGDK; NTSC 3.58/4.43
Indications	: On Screen Display (OSD) : 1- LED (⏻, ⏻, RC5)
VCR programs	: 0 - 49
Tuning and operating system	: ▭ VST
UV913	: Band I: 45.25 - 82.25 MHz : Band II: 163.25 - 224.25 MHz : UHF: 471.25 - 855.25 MHz
UV915E (/62)	: Band I: 48.25 - 168.25 MHz : Band II: 175.25 - 447.25 MHz : UHF: 455.25 - 855.25 MHz
UV917E (/58)	: Band I: 45.25 - 154.25 MHz : Band II: 161.25 - 294.25 MHz : UHF: 471.25 - 855.25 MHz
UV963 (/75)	: Band I: 48.25 - 102.25 MHz : Band II: 138.25 - 294.25 MHz : UHF: 471.25 - 855.25 MHz
UV973 (/73)	: Band II: 175.25 - 247.25 MHz : UHF: 471.25 - 855.25 MHz
Local operating functions	:



Warnings

1. A set to be repaired should always be connected to the mains via a suitable isolating transformer.

2. Safety regulations demand that the set be restored to its original condition and that the components identical to the original types be used. Safety components are marked by the symbol ⚠.

3. To prevent damage to IC's and transistors any flash-over of the EHT should be avoided. To prevent damage to the picture tube the method, indicated in Fig. 3.1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is OV (after approx 30s).

4. ESD

   All IC's and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
   When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.

5. The deflection and multipole units have been adjusted in an optimum way in the factory. Adjustment of these units during repair is thus not recommended.

6. **Removing the EHT cable.**
   After removal of the tule and nip out of the clamping rings N with a screwdriver or side-cutting pliers, the EHT cable may be pulled off the line output transformer (see Fig.3.2). When refitting the cable, first press the clamping ring onto the transformer until a click is heard; after this the cable may be pressed home. Make sure that the cable is pressed down well.

7. Proceed with care when testing the EHT section and the picture tube.

8. Never replace any modules or any other parts while the set is switched on.

9. Wear safety goggles during replacement of the picture tube.

10. Use plastic instead of metal alignment tools. This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.

11. Upon a repair of a transistor or IC assembly i.e. a transistor or IC with heatsink and spring remounting should be carried out in the following order:
    - Mount transistor or IC on heatsink with spring.
    - Mount assembly and resolder the joints at last.

Notes

1. Do not use heatsinks as earth reference.

2. The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.

3. The DC voltages and oscillograms are where necessary measured with (⊤) and without (✕) aerial signal, minimum brightness and maximum saturation and contrast (see diagrams). Voltages and oscillograms in the power supply section have been measured for both normal operation (⏻) and in the stand-by mode (⏻). As an input signal a colour bar pattern has been used.

4. Connectors used for the modules (board to board) are gold-plated and must be replaced by the same type only.

5. The accessibility of the circuits on plugged boards can be increased through application of extension printed circuit boards.
   Code numbers of extension printed circuit boards:
   6-fold 4822 395 30259
   8-fold 4822 214 31402

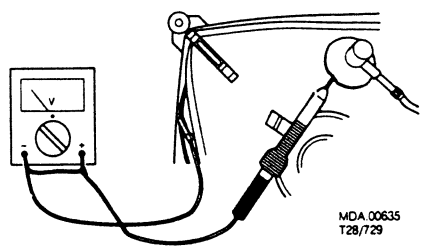


Fig. 3.1

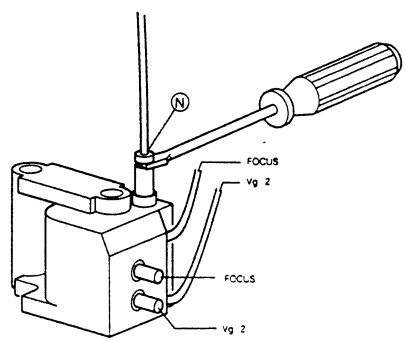


Fig. 3.2

MDA 02136
T28/915

Mechanical instructions

1. Service position
   Mono carrier:
   To facilitate troubleshooting and repairing the set, the chassis can, after disconnecting the degaussing cable and the two loudspeaker connecting cables, be pulled out of the cabinet, and placed behind the set on the LOT side of the chassis.
   VIVO sound module:
   Keep the mono carrier in its original position. Pull the VIVO sound module about 1cm backwards. Lift the right-hand side of the module and remove the module.
   Place the module on the left-hand side.

2. Servicing of SMD's (Surface Mounted Devices)

2.1 General cautions on handling and storage.

a. Oxidation on the SMD's terminals results in poor soldering. Do not handle SMD's with bare hands.
b. Avoid for storage places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity. As a result the capacitance or resistance value of the SMD's may be affected.
c. Rough handling of circuit boards containing SMD's may cause damage to the components as well as the circuit boards. Circuit boards containing SMD's should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape SMD components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

2.2 Removal of SMD's

a. Heat the solder (for 2-3 seconds) at each terminal of the SMD. Small components can, by means of litze wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 4.1A) or.
b. While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 4.1B).
c. Remove the excess solder on the solder lands by means of litze wire or a solder sucker (see Fig. 4.1C).

Caution on removal:

a. When handling the soldering iron, use suitable pressure and be careful.
b. When removing the SMD, do not use undue force with the pair of tweezers.
c. The soldering iron to be used (approx. 30W), must preferably be provided with a thermal control (soldering temperature about 225 to 250° C)
d. The SMD, once removed, must never be used again.

2.3 Attachment of SMD's

a. Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 4.2A).
b. Next complete the soldering of the terminals of the component (see Fig. 4.2B).

Caution on attachment:

a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
b. Keep the SMD's body in contact with the printed board when soldering.
c. The soldering iron to be used (approx. 30W) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d. Soldering should not be done outside the solder land.
e. Soldering flux (of rosin) may be used but should not be acidic.
f. After soldering, let the SMD cool down gradually to room temperature.
g. The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 4.3).

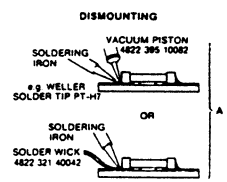


Fig. 4.1

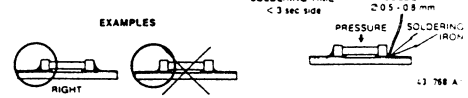


Fig. 4.2

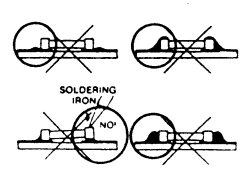
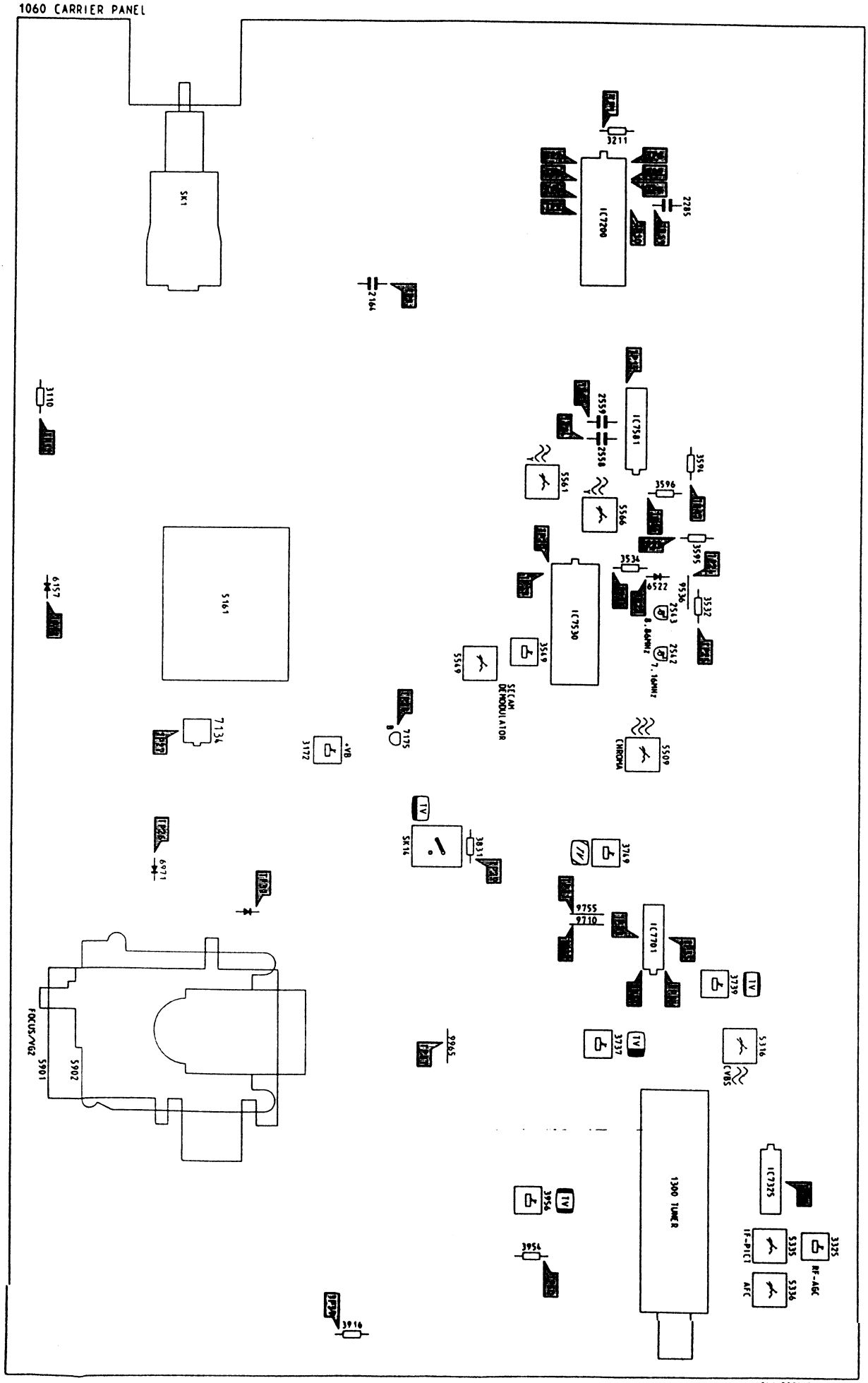
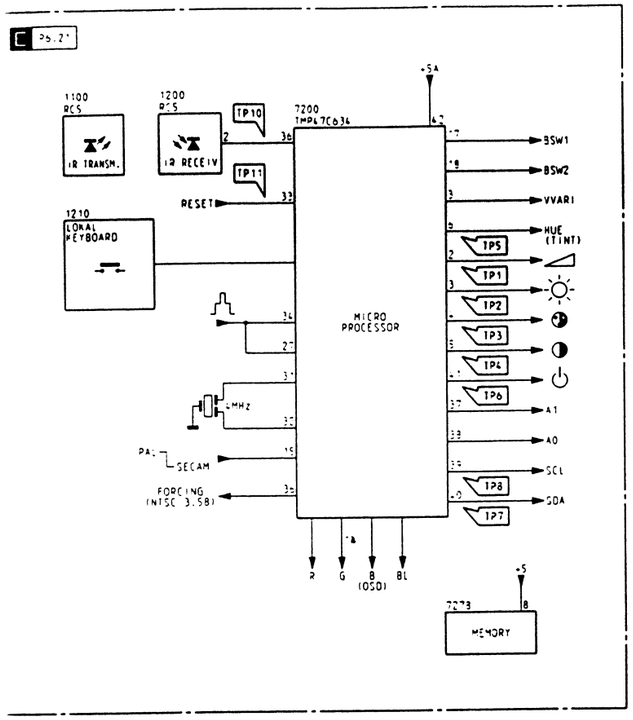
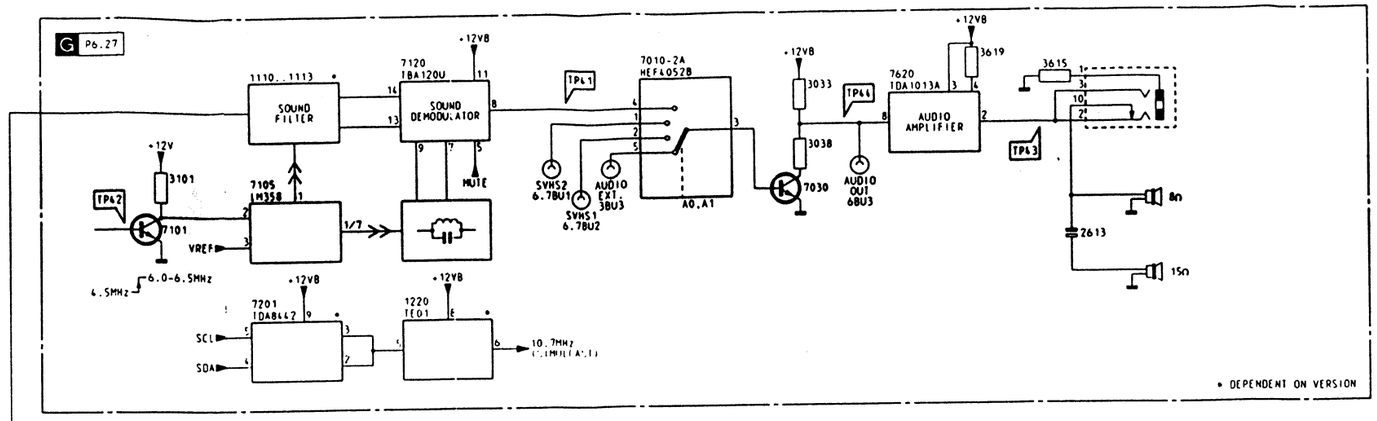


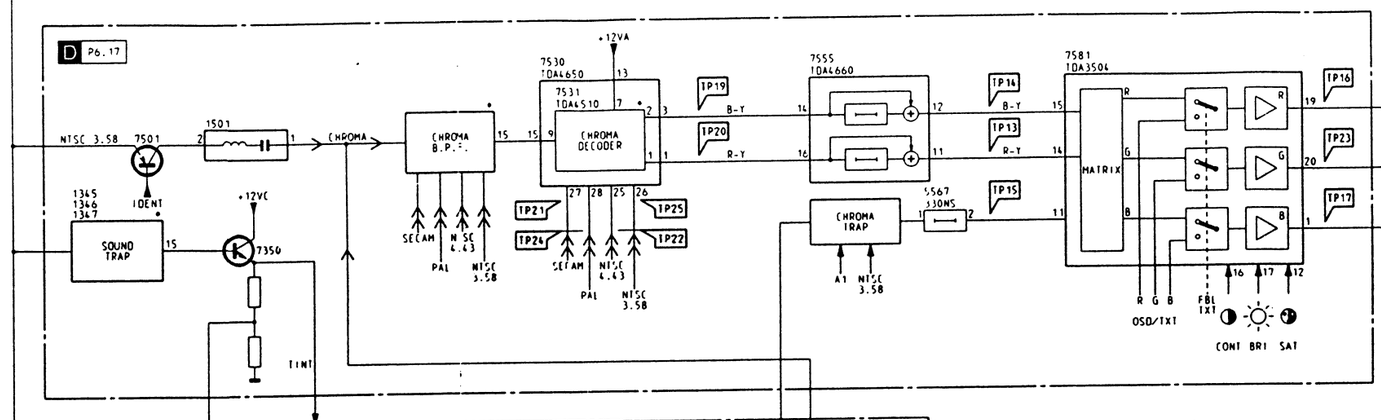
Fig. 4.3

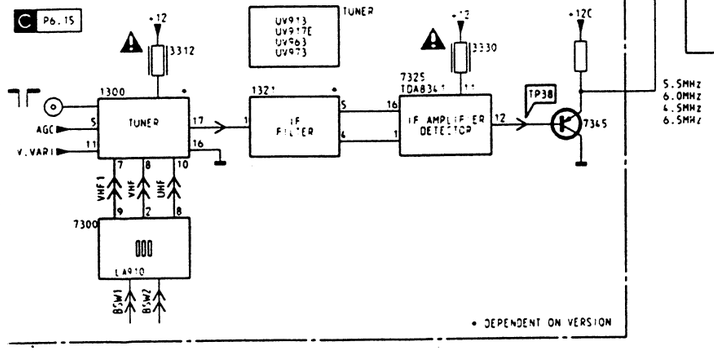
Survey testpoints Carrier panel

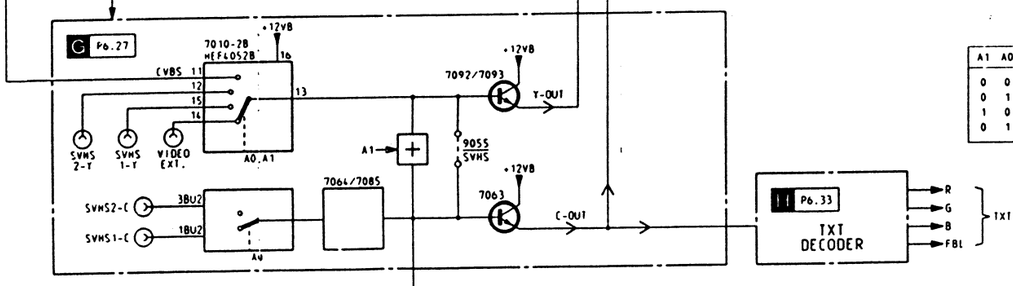


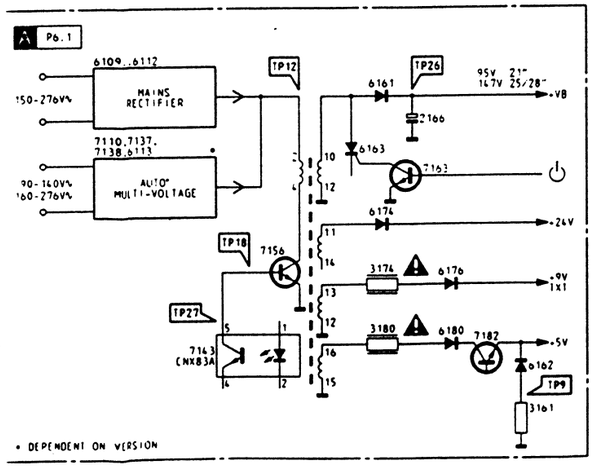

C P6.21
1100 RCS
IR TRANSM.
1200 RCS
IR RECEIV
TP10
TP11
RESET
1210 LOKAL KEYBOARD
7200 TMP47C634
MICRO PROCESSOR
+5A
3SW1
BSW2
VVARI
HUE (TINT)
TP5
TP1
TP2
TP3
TP4
TP6
A1
A0
SCL
SDA
TP8
TP7
4MHz
PAL
SECAM
FORCING (NTSC 3.58)
R
G
B (OSD)
BL
+5
7278
MEMORY

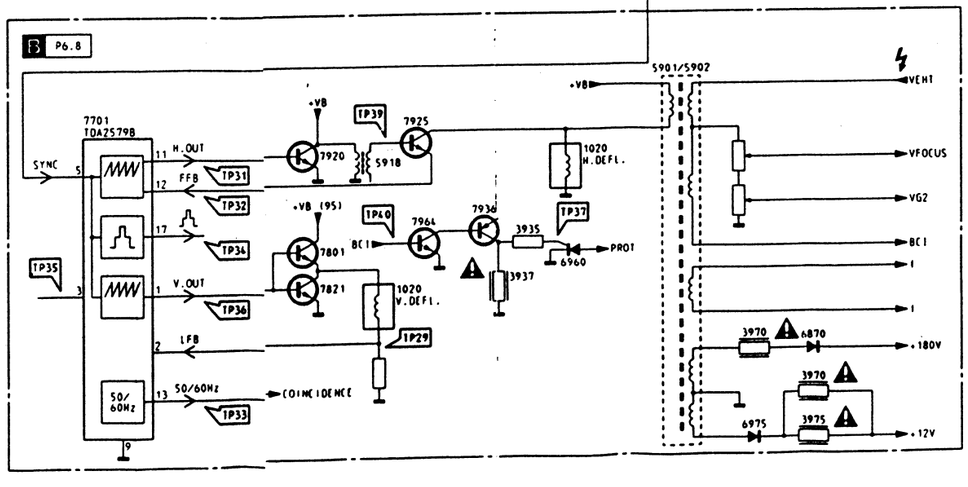

G P6.27
1110..1113 *
SOUND FILTER
7120 TDA1220U
SOUND DEMODULATOR
+12V8
TP41
7010-2A HEF4052B
A0,A1
3033
3038
TP44
7030
7620 TDA1013A
AUDIO AMPLIFIER
3619
3615
TP43
8Ω
2613
15Ω
SVHS2 6.7BU1
SVHS1 6.7BU2
AUDIO EXT 3BU3
AUDIO OUT 6BU3
+12V
3101
7105 LM358
7101
TP42
VREF
6.0-6.5MHz
4.5MHz
MUTE
1/7
7201 TDA8442
1220 TE01
SCL
SDA
10.7MHz
* DEPENDENT ON VERSION

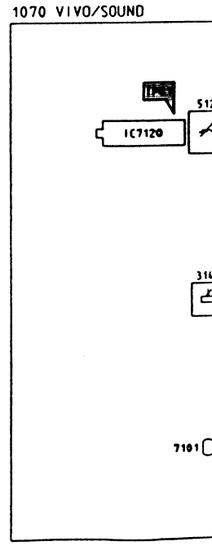

D P6.17
NTSC 3.58
7501
1501
CHROMA
IDENT
1345 1346 1347
SOUND TRAP
7350
TINT
CHROMA B.P.F.
SECAM
PAL
N SC 4.43
NTSC 3.58
7530 TDA4650
7531 TDA4510
CHROMA DECODER
TP19
TP20
TP21
TP24
TP25
TP22
B-Y
R-Y
7555 TDA4660
CHROMA TRAP
A1
5567 330NS
TP14
TP13
TP15
7581 TDA3504
MATRIX
TP16
TP23
TP17
R G B
OSD/TXT
FBL TXT
CONT BRI SAT
F P6.23
7115,7116
7115,7136
7115,7156
TP46
TP45
TP47
1010 CRT
CRT PANEL


C P6.15
+12
3312
TUNER
UV913 UV917E UV983 UV973
1300
TUNER
AGC
V.VARI
IF FILTER
7325 TDA8341
IF AMPLIFIER DETECTOR
+12
3330
+12C
TP38
7345
VHF1
VHF
VHF
UHF
7300
LA910
B3W1
B3W2
5.5MHz
6.0MHz
4.5MHz
6.5MHz
* DEPENDENT ON VERSION

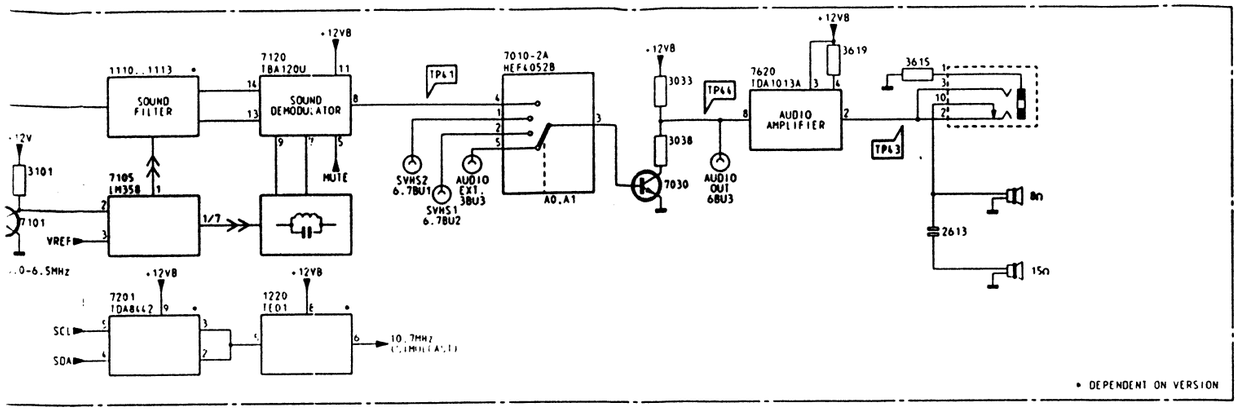

C P6.27
7010-2B HEF4052B
+12V8
CVBS 11
SVHS 2-Y
SVHS 1-Y
VIDEO EXT.
A0,A1
7092/7093
Y-OUT
9055 SVHS
A1
7063
C-OUT
7064/7085
SVHS2-C
SVHS1-C
3BU2
1BU2
A0
A1 A0
0 0 SVHS2
0 1 SVHS1
1 0 VIDEO EXT
0 1 VIDEO INT
H P6.33
TXT DECODER
R
G
B
FBL
TXT

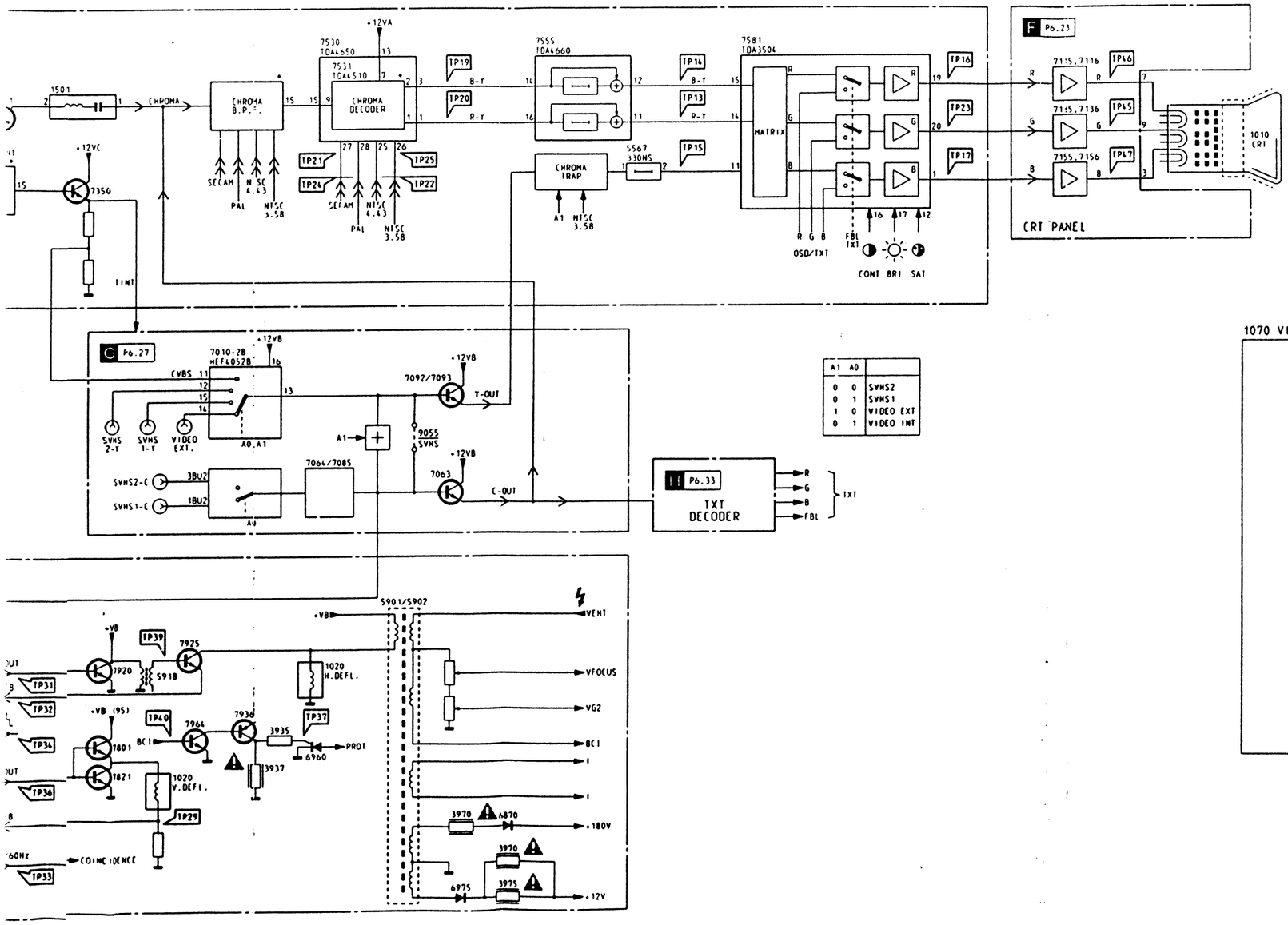

A P6.1
6109..6112
MAINS RECTIFIER
150-276V~
7110,7137, 7138,6113
AUTO* MULTI-VOLTAGE
90-140V~ 160-276V~
TP12
TP26
95V 21" 147V 25/28"
+VB
6161
2166
6163
7163
6174
+24V
TP18
7156
3174
6176
+9V IxI
TP27
7163 CNX83A
3180
6180
7182
+5V
0162
TP9
3161
* DEPENDENT ON VERSION


B P6.8
7701 TDA2579B
SYNC
H.OUT
FFB
V.OUT
LFB
50/60Hz
COINCIDENCE
TP31
TP32
TP34
TP36
TP33
TP35
+VB
TP39
7925
7920
5918
+VB (95)
7801
7821
TP40
BCI
7964
7936
3935
6960
PROT
3937
1020 H.DEFL.
1020 V.DEFL.
TP37
TP29
5901/5902
VEHT
VFOCUS
VG2
BCI
I
I
3970
6870
+180V
3970
3975
6975
+12V

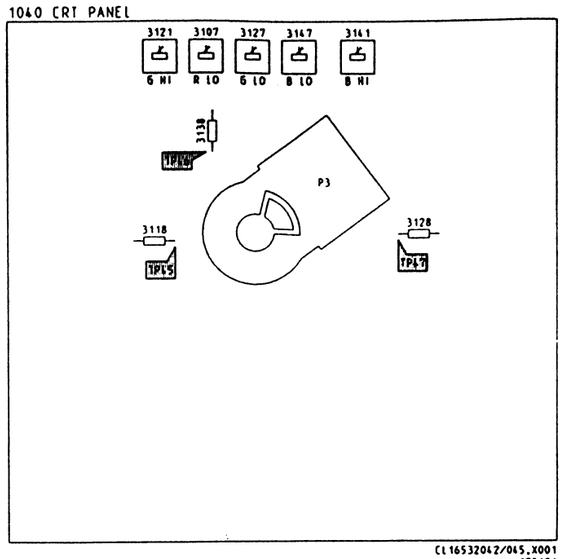

1070 VIVO/SOUND
IC7120

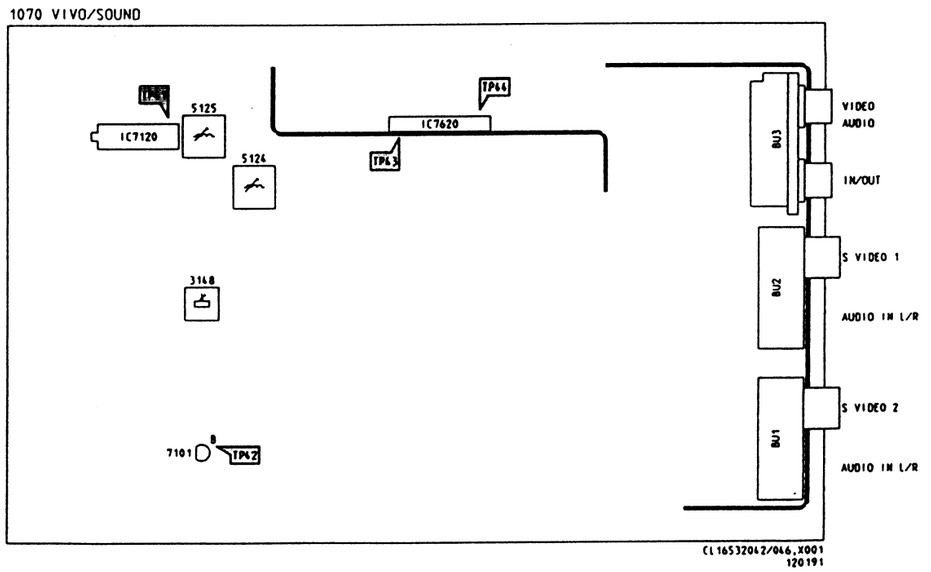
Blockdiagram Survey testpoints CRT Panel & Vivo/Sound Module





A1	A0	
0	0	SVHS2
0	1	SVHS1
1	0	VIDEO EXT
0	1	VIDEO INT





A

Power supply

A

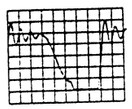
DEGAUSSING COIL
1001 SK-1
ON/OFF
3001 4M7
1M11
1M12
2M11
2M12
1101 3.15AT
150V-276V~ 4MV; 90V-276V~
2102 470n
2105 6p8
2106 6p8
3101
3107b
3107a
3108a
3108b
2109 2n2
2110 2n2
2111 2n2
2112 2n2
6109 4xBYM560 6110
6111
6112
AUTO MULTI VOLTAGE
3109 68k
3111 33k
6113 SO402NH
304V (312V)
7110 BC548
303V (313V)
2113 100n
3113
3110 1k8
3130 470k
2132
3142 470k
6136 1N4005
6137 BYP33J
7137 BF423
3137 10k
2137 10n
7138 BF422
6139 BZX79-5V6
3139 390k
6138 BZX79-C75
2138 10n
3138 6k8
2139 150n
3135 OR
3144 4k7
2144 1u
2116 1n
3136 15k
5155 2u
2153 10n
6156 BYD74D
3156 1k
5157 1000u
3150 22
5150 5u6
TP18
7156 2V7 (0V1)
285V (313V)
2167 470p
2157 1n5
3157 27
3152 10k
6157 1N5059
6158 1N5059
5161 CE422
2161 2n2
6161 BY229-600
5162
5168 33u
2162 100u
3168
6V6 (1V1)
16V4 (16V3)
3176 150
7173 BC548C
6V (0V6)
3170 5k6
3173 560
2172 22n
3172 1k
2173 270n
2171 220u
3171 10k
6173 BZX79-F6V2
2163 120p
6163 SFOR5J43
3163 47k
6164 1N4148
3165 470
0V (13V8)
7165 BC548
0V7 (0V)
3164 3k9
2165 68n
3120 3k9
6174 BYD74D
2174 1n
5175
2175 1000u
3166
3167
3180 1
6180 BYD33D
2180 680u
7181 2n2
3193
3169
11V (13V)
11V (12V4)
7183 BC558
1V (1V5)
6182
6183 1N4148
2198 2n2
6181 BYD33D
3174 1
6176
5174 47u
+9V1
2176 2n2
2177 58u
6175 BZX79 -F6V2
89V-21" (10V5)
14V-25/28" (11V)
7175 BF423
3175
3177
88V-21" (15V5)
140V-25/28" (24V)
2166 100u
VB
95V-21" (17V)
147V-25/28" (25V5)
0V (0V)
3179
3178
+5
3291 680
PROTECTION
3254 3k9
STANDBY
B4
E2
A1
G62
6197 BZX79 -C27
+24
3182
3184 100
5VR (5V8)
11V (14V)
7182 BC386
5V2 (5V3)
5182 47u
3183
5V1 (5V1)
5V8 (5V9)
7184 BC558
4V9 (5V)
RESET
E5
+5
6184 BZX79 -F5V1
6185 BZX79 -C4V7
3185 10k
2182 100u
2183 100u
3155 68
9V5 (5V)
7164 BC548
0V (0V)
6162 BZX79-C5V6
2167 22n
3162 1k
2164 270n
3161 100
15V4 (14V3)
7143-2B (NX83A)
14V3 (13V1)
3194
3195
3158
3196 100
2196 22n
10V5 (5V)
7197 BC558
10V6 (5V)
7196 BC548
3153 100
A1
E+G
6151 6155 BYD33D(2x)
2155 2n2
3154 1k2
6149 BZX85-C3V0
6151 BZX85-C2V7
2148 1u
3148 220
2140
6140 1N4148
3140 5k1
7140 BC548C
4V3 (0V2)
3147 100
3146 10k
3V (0V1)
7164 BC548
4V (0V1)
2V7 (0V) 7167 BC368
4V3 (0V2)
6150 BYD 33D
2151 2n2
6141 1N4148
3141 10k
TP27
1V (0V1)
7143-2A (NX83A)
6143 1N4-148
2143 150p
6V3 (0V2)
2149 470p
2160 1n
2150
2156
6155161
2159 1n
3159 4M7
• MEASURED IN RESPECT OF
...V → ⏚
(...V) → ⏻
2185 2n2
2186 10u
2187 10u
6186 BYD33D
6188 BYD33D
6190 1N4148
3199 620
3188 1k5
6199 BZX79 -C27
6189
3190 15
3191 1k2
2188 33n
2190 22n
3160 1k2
3198
14V4 (13V9)
6196 1N4148
7198 BD337
15V8 (14V5)
15V7 (14V)
15V2 (14V3)
0V8
7188 BC558C
3186
3187
2199 470n
14V (14V)
2193 1n
3181 1k
3192 150
2V2 (1V4)
7193 BC547C
0V1 (0V7)
6192 1N4148
6198 BZX79 -C15

ITEM	21"	25/28"
2132	220u	330u
2140	180p	270p
2150	27p	220p
2156	39p	56p
3168	102k	162k
3175	82k	120k
3177	4k99	5k49
3178	68k	118k
3179	82k	120k
3188	1k5	2k7
3199	620	2k4
6182	BZX79-C11	BZX79-C10
6189	BZX79-C13	BZX79-C15
7156	BUT11AF	BUT12AF

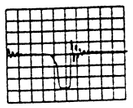
CHASSIS MARK II
CL16532042/011.AREF 281091

CS 58 123

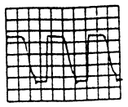
Power Supply



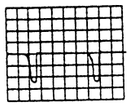
0.1kV/DIV 2µs/DIV
1◐



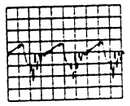
0.1kV/DIV 5µs/DIV
1◔



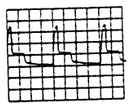
50V/DIV 5µs/DIV
2◐



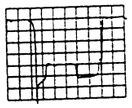
50V/DIV 10µs/DIV
2◔



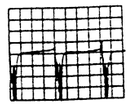
0.2V/DIV 5µs/DIV
3◐



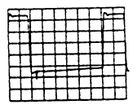
2V/DIV 2ms/DIV
3◔



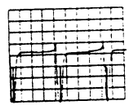
1V/DIV 2µs/DIV
TP18◐



0.5V/DIV 2ms/DIV
TP18◔



1V/DIV 2µs/DIV
TP27◐



1V/DIV 2ms/DIV
TP27◔

Measured at ✳

1060 Carrier Panel (Cupper side)

	1101	B1	2631	E3	3139	C2	3300	G4	3838	F3	6156	D1	7680	C4	9574	C6
	1200	A6	2632	D4	3140	D1	3307	H4	3840	F3	6157	D1	7681	C3	9585	C4
	1266	B4	2633	E4	3141	E1	3308	H4	3841	F3	6158	D1	7682	C4	9590	C6
	1300	H4	2634	D4	3142	B2	3312	G4	3842	G3	6161	E2	7686	C3	9595	D6
	1321	G6	2635	D4	3144	D2	3314	F6	3843	G3	6162	A2	7672	E3	9598	C6
	1345	G6	2638	D4	3146	E1	3316	G6	3860	G3	6163	E2	7681	C4	9702	F6
	1346	G6	2639	D4	3147	E1	3317	G6	3861	G3	6164	E2	7701	F4	9704	F3
	1347	F6	2640	D4	3148	E1	3318	G6	3862	G3	6173	E2	7713	E4	9705	F4
	1601	B6	2641	E4	3150	D1	3326	H6	3902	F3	6174	D2	7787	E4	9706	E4
	1642	B4	2642	D4	3152	D1	3328	H6	3903	F2	6175	E3	7801	F4	9707	E4
	1643	D4	2643	D4	3153	D3	3330	F6	3904	F3	6178	D2	7820	G4	9708	E4
	2102	A1	2646	E4	3154	E1	3331	F6	3906	G2	6180	C2	7821	G4	9710	F4
	2106	B1	2647	D3	3155	C3	3341	G6	3907	G2	6181	C3	7903	F3	9713	E4
5	2106	B1	2648	D3	3156	D1	3344	G6	3908	G3	6182	B2	7920	H3	9727	G1
	2108	B1	2650	C3	3157	D1	3345	G6	3909	G1	6183	C3	7921	H3	9731	G2
	2108	B1	2651	D4	3158	D3	3346	G6	3910	G1	6184	A2	7925	H2	9738	G3
	2110	B1	2654	D3	3159	C2	3347	G6	3911	G3	6185	A2	7926	H2	9755	F4
	2111	C1	2656	D3	3160	C3	3348	F6	3912	G3	6186	C2	7936	H3	9762	G1
	2112	C1	2657	D3	3161	B3	3349	F6	3916	H3	6188	C2	7937	H3	9781	F3
	2113	C1	2658	C4	3162	B2	3350	F6	3920	H3	6189	C2	7964	H4	9801	E3
	2132	C1	2659	C4	3163	E2	3351	F6	3922	H3	6190	C2	7966	F3	9812	G3
	2137	B2	2661	C4	3164	B3	3363	F6	3928	H1	6192	D2	9109	B1	9906	E3
	2138	B2	2662	C4	3165	D3	3360	H6	3930	H2	6196	C3	9132	C1	9907	G2
	2139	C2	2663	C4	3166	D2	3361	H6	3931	H2	6197	D3	9141	E1	9910	G1
	2140	D1	2664	C4	3167	D2	3601	E6	3935	H3	6198	C2	9144	C2	9916	H2
	2143	E1	2665	C4	3168	E2	3503	D6	3936	F3	6199	C2	9166	C3	9930	G2
	2144	C2	2666	C4	3169	B3	3505	E6	3937	H3	6201	B3	9174	C3	9936	G3
	2148	D1	2666	C3	3169	B3	3505	E5	3937	H3	6201	B3	9176	D3	9946	G3
	2149	D1	2668	C4	3170	E2	3506	E6	3939	H3	6202	B3	9179	E3	9947	G3
	2150	C2	2670	D6	3171	E2	3507	E4	3940	H3	6211	A3	9182	B3	9948	F3
	2151	D1	2672	E4	3172	E2	3509	E6	3941	H3	6257	A6	9183	C2	9963	F1
	2152	D1	2673	E4	3173	E2	3513	B6	3945	H4	6264	B6	9184	B3	9965	G3
	2153	D1	2674	C4	3174	D2	3614	D6	3946	H3	6272	B6	9193	B3	9972	F2
	2155	E1	2682	C4	3175	E3	3522	D6	3947	H3	6273	A4	9198	C2	9977	F2
	2156	C2	2683	C4	3176	E3	3524	D6	3950	G3	6274	A6	9199	D2	9984	F2
	2157	D1	2684	C4	3177	E3	3525	D6	3951	H3	6275	A6	9200	B4	9992	F4
	2158	C2	2686	C4	3178	E3	3526	D6	3954	H4	6290	B4	9206	B4	9993	F4
4	2160	C2	2686	C4	3179	E3	3527	E4	3956	H3	6292	B4	9207	B4	BU1	A6
	2161	E2	2687	C4	3180	C2	3528	D6	3956	G4	6294	B4	9209	B3	M1	C6
	2162	E2	2688	C4	3181	E2	3532	D6	3961	F3	6296	B4	9210	B4	M2	C6
	2163	E2	2689	C4	3182	A2	3533	D4	3962	F1	6297	C6	9211	A4	M3	D6
	2164	B3	2690	C4	3183	A2	3534	D4	3963	F1	6315	H4	9214	B6	M6	F3
	2165	B3	2694	C6	3184	A2	3536	D4	3965	F3	6316	G6	9216	B3	M7	F2
	2166	F1	2696	C6	3186	A2	3538	D4	3966	F3	6601	E6	9220	B4	M9	G1
	2167	B3	2698	C6	3188	D2	3539	D4	3969	F1	6522	D4	9223	B4	M11	B1
	2171	E2	2613	A6	3187	E2	3541	D6	3970	F2	6623	D4	9224	B3	M12	B2
	2172	E3	2614	B6	3188	C2	3542	E4	3972	F2	6631	D6	9225	A3	M13	C3
	2173	E2	2705	E4	3189	C2	3548	E4	3975	F1	6632	D6	9226	A3	M21	A6
	2174	D2	2722	F6	3190	C2	3549	D3	3976	F1	6642	E6	9228	A6	M22	A4
	2175	D3	2724	F6	3191	C2	3550	D4	3977	F2	6664	D3	9229	B3	M23	B6
	2178	D2	2727	F6	3192	D2	3564	C3	3980	F2	6706	E3	9236	B6	M30	F6
	2177	D2	2728	F4	3193	B3	3566	D3	3981	F2	6710	E6	9237	B5	M31	E6
	2180	C2	2730	F4	3194	E2	3567	D3	3982	F2	6757	E6	9241	A3	M32	F6
	2181	C2	2735	F4	3195	D2	3568	C3	3983	F2	6803	F4	9243	B3	M51	C4
	2182	A3	2736	F4	3196	D3	3560	C4	3984	F2	6811	F4	9247	B3	M61	A6
	2183	A3	2740	F6	3197	D3	3561	C4	3985	F2	6816	G4	9251	B4	M62	A6
	2185	C2	2741	F4	3198	C3	3562	C4	3990	F3	6881	G4	9254	A3	M63	B6
	2186	C2	2748	F4	3199	C2	3563	D4	3991	F4	6862	G4	9256	B4	SK14	E3
3	2187	C2	2750	F4	3200	A4	3565	D4	3992	F4	6902	F3	9258	B4		
	2188	C2	2761	E4	3205	B3	3566	B3	5105	B1	6926	H1	9259	B4		
	2190	C2	2766	F4	3206	B4	3567	C4	5150	D1	6927	H1	9260	B3		
	2193	E3	2767	F4	3207	B3	3568	C4	6155	D1	6928	H1	9267	C6		
	2196	D3	2768	F4	3208	A3	3569	C4	6157	D1	6932	H1	9268	B6		
	2197	D3	2801	F3	3209	B3	3570	D6	6161	D1	6960	F3	9300	G4		
	2198	C3	2802	F3	3210	A3	3571	C6	6162	E2	6965	F2	9301	F6		
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	2207	A4	2820	G4	3213	A4	3573	E3	6174	C3	6971	E1	9303	E6		
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	2245	A4	2919	G4	3222	B3	3595	D4	5331	F6	7138	B2	9360	F6		
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	2292	B4	2930	G1	3230	A3	3713	E4	6549	D3	7173	E3	9607	E6		
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	2308	H4	2937	F3	3241	B3	3728	F6	6595	D6	7188	D3	9615	C6		
	2307	H4	2941	H4	3242	A3	3736	F4	6596	C6	7193	D2	9618	E4		
	2308	G4	2943	H3	3245	A3	3738	F4	6901	G2	7196	D3	9617	E4		
	2312	H4	2946	H3	3246	B3	3737	F4	5902	G1	7197	D3	9618	D6		
	2313	G4	2960	G3	3247	B3	3738	F4	5911	G1	7198	C2	9619	C6		
	2314	G5	2961	G3	3250	A3	3739	F6	5916	H2	7200	A4	9620	D6		
	2316	G5	2964	H4	3251	B3	3740	F6	5917	H2	7211	A4	9622	E6		
	2318	G5	2963	F1	3252	B3	3741	F6	5918	H2	7214	A4	9627	E3		
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	2325	G5	2970	F1	3264	A3	3749	E4	5930	G2	7236	A6	9629	E3		
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	2334	H5	2976	F1	3259	B6	3756	F4	5936	G3	7268	B4	9632	E3		
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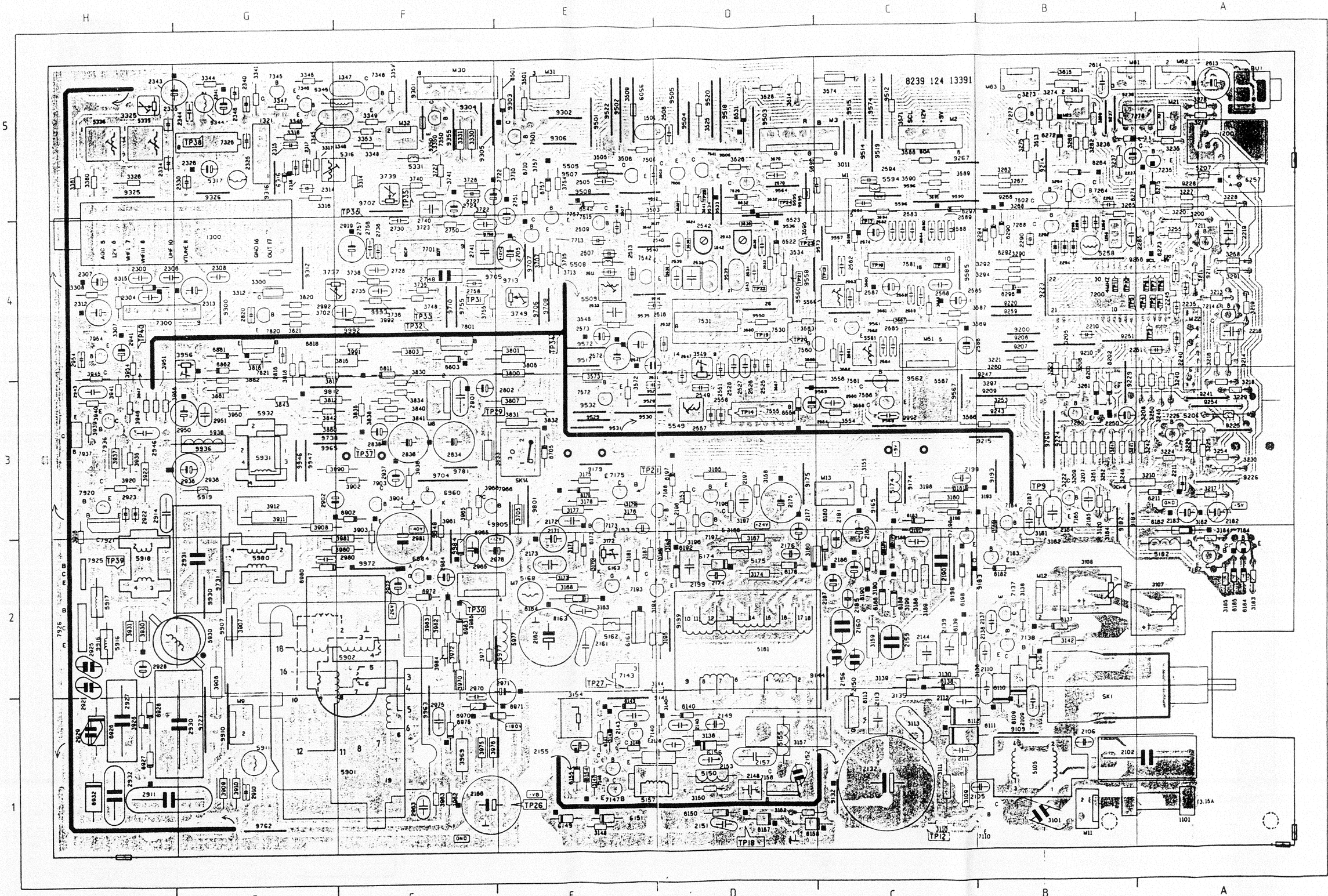
	2341	G5	2981	F2	3262	B6	3801	E4	6109	B2	7300	H4	9636	E4		
	2343	G5	2984	F2	3263	B6	3803	F4	6110	B1	7325	G5	9638	D4		
	2344	G5	2992	F4	3264	B6	3805	E4	6111	C1	7345	G6	9639	D4		
	2348	G5	3011	C6	3266	B4	3807	E3	6112	C1	7346	G6	9640	E4		
	2503	E6	3101	B1	3267	B6	3812	G3	6113	C1	7348	F6	9642	E6		
	2505	E6	3107	A2	3268	B6	3815	F4	6138	B2	7360	F6	9650	D4		
	2508	D6	3108	B2	3269	B6	3816	G4	6137	B2	7601	E6	9657	C4		
	2507	E4	3109	C1	3273	B6	3817	G4	6138	C2	7602	B6	9658	D4		
	2509	E4	3110	C1	3274	B6	3818	G4	6139	C2	7606	E6	9660	D4		
	2611	E4	3111	C1	3276	B6	3820	G4	6140	D1	7606	D6	9661	C4		
	2613	E4	3113	C1	3278	A6	3821	G4	6141	E1	7615	E4	9662	C3		
	2615	E4	3120	B3	3279	A6	3830	F3	6143	E1	7625	D6	9664	D6		
	2616	E4	3130	C2	3290	B4	3831	E3	6149	E1	7630	D4	9667	C3		
	2525	D4	3135	C2	3291	A4	3832	E3	6150	D1	7631	D4	9668	C3		
	2526	D4	3136	D1	3292	B4	3833	F3	6151	E1	7641	D5	9669	C3		
	2527	D4	3137	B2	3294	B4	3834	F3	6154	E1	7642	E4	9672	E4		
	2628	D4	3138	C2	3297	B3	3836	F3	6155	E1	7666	D3	9673	C4		

1060 Carrier Panel (Cupper side)

1060 Carrier Panel (Cupper side)



Synchronisation

Horizontal

Vertical

East/ West

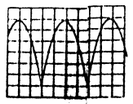
- SEE TABLE
- ** MOUNTED ON HEATSINK
- *** PIN NUMBER OUTSIDE FOR 21"
  PIN NUMBER OUTSIDE FOR 25/28"

CHASSIS MARKII

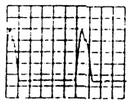
CL16532042/012_BREF 121091

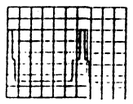
A+C+D+E+F+G

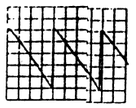
1020	C18	3910	B14
1020	M6	3911	B12
2705	B8	3912	C12
2722	B5	3916	D13
2724	B4	3920	E11
2727	C3	3922	E13
2728	E4	3928	B20
2730	G9	3930	D20
2735	H7	3931	D21
2736	F10	3935	G14
2740	G5	3936	G15
2741	H5	3937	G13
2748	B7	3939	G13
2750	B6	3940	F12
2751	B5	3941	F12
2756	D9	3945	F11
2757	D10	3946	F10
2758	E10	3947	G10
2801	K6	3950	I11
2802	K5	3951	H11
2816	N4	3954	G12
2820	H1	3955	H11
2834	N6	3956	I12
2836	N6	3961	G18
2838	O6	3962	G18
2902	H14	3963	H18
2910	A14	3965	G19
2911	C13	3966	G20
2914	D12	3969	I18
2922	E13	3970	J18
2923	D13	3972	K18
2925	D14	3975	M18
2926	D14	3976	H18
2927	D16	3977	H19
2928	C20	3980	L18
2929	D15	3981	L18
2930	C20	3982	N17
2931	D17	3983	N17
2932	D16	3984	N17
2935	F15	3985	N19
2936	F15	3990	H19
2937	G14	3991	H19
2941	F12	3992	M20
2943	F11	5902	B16
2946	F10	5911	A14
2950	M11	5916	C14
2951	I11	5917	C14
2954	G12	5918	D12
2963	H18	5919	H2
2965	G19	5930	D21
2970	K18	5931	F15
2971	J19	5932	F15
2972	K19	5936	F14
2975	M18	5977	H19
2976	M20	5980	D18
2980	L18	6705	B8
2981	L19	6710	E3
2984	N18	6755	B10
2992	M20	6803	K4
3702	H6	6811	L5
3705	A8	6816	M3
3707	D3	6861	O2
3710	E2	6862	O1
3713	F3	6926	D15
3715	G2	6927	C19
3722	B5	6928	C20
3723	B4	6932	D15
3727	C2	6960	G15
3728	C4	6963	N17
3735	N7	6965	G19
3736	N8	6970	J18
3737	G9	6971	J19
3738	N8	6972	K18
3740	G4	6975	M18
3741	G4	6980	L18
3748	B7	6983	N18
3749	B7	6984	N19
3750	B5	7701	C4
3750	M4	7713	F3
3754	B10	7757	B19
3755	D19	7801	K5
3757	B10	7820	N2
3800	J4	7821	N5
3801	K3	7903	M14
3803	L5	7920	E12
3805	K3	7921	E12
3807	J4	7925	D13
3812	M5	7926	D13
3815	L3	7936	F13
3816	N4	7937	F13
3817	M4	7954	G12
3818	M3	7966	G20
3820	M2	9801	J8
3821	N2	9812	M4
3830	M5	9907	E14
3831	L7	9916	C14
3832	M7	9930	D18
3833	J6	9936	F14
3834	N7		
3835	N7		
3838	O7		
3840	O6		
3841	O4		
3842	N7		
3843	O9		
3860	O2		
3861	O2		
3862	O1		
3902	M14		
3903	M15		
3904	G15		
3905	M15		
3906	E14		
3907	E14		
3908	F14		
3909	B14		


2V/DIV 5ms/DIV
TP29

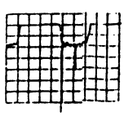
0.2V/DIV 10µs/DIV
TP31


2V/DIV 10µs/DIV
TP32


2V/DIV 10µs/DIV
TP34


0.5V/DIV 5ms/DIV
TP35

0.5V/DIV 5ms/DIV
TP36


1V/DIV 10µs/DIV
TP39

1060 Carrier Panel (Component side)

	1101	B1	2633	E4	3144	D2	3317	G5	3902	F3	6178	D2	7903	F3	9731	G2
	1200	A5	2634	D4	3146	E1	3318	G5	3903	F2	6180	C2	7920	H3	9738	G3
	1255	B4	2635	D4	3147	E1	3326	H5	3904	F3	6181	C3	7921	H3	9755	F4
	1300	H4	2638	D4	3148	E1	3328	H5	3906	G2	6182	B2	7926	H2	9762	G1
	1321	G5	2639	D4	3160	D1	3330	F5	3907	G2	6183	C3	7928	H2	9781	F3
	1345	G5	2640	D4	3162	D1	3331	F5	3908	G3	6184	A2	7936	H3	9801	E3
	1346	G5	2641	E4	3163	D3	3341	G5	3909	G1	6185	A2	7937	H3	9812	G3
	1347	F5	2642	D4	3164	E1	3344	G5	3910	G1	6186	C2	7954	H4	9905	E3
	1501	E5	2643	D4	3165	C3	3345	G5	3911	G3	6188	C2	7966	F3	9907	G2
	1642	D4	2646	E4	3166	D1	3346	G5	3912	G3	6189	C2	9100	B1	9910	G1
	1643	D4	2647	D3	3167	D1	3347	G5	3916	H3	6190	C2	9132	C1	9916	H2
	2102	A1	2649	D3	3168	D3	3348	F5	3920	H3	6192	D2	9141	E1	9930	G2
	2106	B1	2650	C3	3169	C2	3349	F5	3922	H3	6198	C3	9144	C2	9936	G3
	2108	B1	2651	D4	3180	C3	3350	F5	3928	H1	6197	D3	9165	C3	9946	G3
	2109	B1	2654	D3	3161	B3	3351	F5	3930	H2	6198	C2	9174	C3	9947	G3
5	2110	B1	2656	D3	3162	B2	3353	F5	3931	H2	6199	C2	9176	D3	9948	F3
	2111	C1	2657	D3	3163	E2	3360	H6	3935	H3	6201	B3	9179	E3	9963	F1
	2112	C1	2658	C4	3164	B3	3361	H6	3936	F3	6202	B3	9182	B3	9965	G3
	2113	C1	2659	C4	3165	D3	3501	E5	3937	H3	6211	A3	9183	C2	9972	F2
	2132	C1	2661	C4	3166	D2	3503	D6	3939	H3	6267	A6	9184	B3	9977	F2
	2137	B2	2662	C4	3167	D2	3505	E6	3940	H3	6264	B5	9193	B3	9984	F2
	2138	B2	2663	C4	3168	E2	3506	E5	3941	H3	6272	B5	9198	C2	9992	F4
	2139	C2	2664	C4	3169	B3	3507	E4	3945	H4	6273	A4	9199	D2	9993	F4
	2140	D1	2665	C4	3170	E2	3509	E6	3946	H3	6274	A6	9200	B4	BU1	A5
	2143	E1	2668	C3	3171	E2	3513	B6	3947	H3	6276	A5	9206	B4	M1	C5
	2144	C2	2668	C4	3172	E2	3514	D6	3950	G3	6290	B4	9207	B4	M2	C6
	2148	D1	2670	D5	3173	E2	3522	D5	3951	H3	6292	B4	9209	B3	M3	D5
	2149	D1	2672	E4	3174	D2	3524	D5	3954	H4	6294	B4	9210	B4	M6	F3
	2150	C2	2673	E4	3175	E3	3525	D5	3955	H3	6296	B4	9211	A4	M7	F2
	2161	D1	2674	C4	3176	E3	3526	D6	3956	G4	6297	C5	9214	B5	M9	G1
	2162	D1	2682	C4	3177	E3	3527	E4	3961	F3	6316	H4	9215	B3	M11	B1
	2163	D1	2683	C4	3178	E3	3528	D6	3962	F1	6316	G6	9220	B4	M12	B2
	2165	E1	2684	C4	3179	E3	3532	D5	3963	F1	6501	E6	9223	B4	M13	C3
	2166	C2	2685	C4	3180	C2	3533	D4	3965	F3	6522	D4	9224	B3	M21	A6
	2167	D1	2686	C4	3181	E2	3534	D4	3966	F3	6523	D4	9225	A3	M22	A4
	2169	C2	2687	C4	3182	A2	3535	D4	3969	F1	6531	D5	9226	A3	M23	B5
	2160	C2	2688	C4	3183	A2	3538	D4	3970	F2	6532	D5	9228	A5	M30	F5
4	2161	E2	2689	C4	3184	A2	3539	D4	3972	F2	6542	E5	9229	B3	M31	E5
	2162	E2	2690	C4	3185	A2	3541	D6	3976	F1	6554	D3	9236	B5	M32	F5
	2163	E2	2694	C5	3186	D2	3542	E4	3976	F1	6705	E3	9237	B5	M61	C4
	2164	B3	2695	C5	3187	E2	3548	E4	3977	F2	6710	E5	9241	A3	M61	A5
	2165	B3	2696	C5	3188	C2	3549	D3	3980	F2	6757	E5	9243	B3	M62	A5
	2166	F1	2613	A5	3189	C2	3550	D4	3981	F2	6803	F4	9247	B3	M63	B5
	2167	B3	2614	B5	3190	C2	3554	C3	3982	F2	6811	F4	9251	B4	SK14	E3
	2171	E2	2705	E4	3191	C2	3556	D3	3983	F2	6816	G4	9254	A3		
	2172	E3	2722	F5	3192	D2	3557	D3	3984	F2	6861	G4	9256	B4		
	2173	E2	2724	F5	3193	B3	3558	C3	3985	F2	6862	G4	9259	B4		
	2174	D2	2727	F5	3194	E2	3560	C4	3990	F3	6902	F3	9260	B3		
	2175	D3	2728	F4	3196	D2	3561	C4	3991	F4	6926	H1	9267	C5		
	2176	D2	2730	F4	3196	D3	3562	C4	3992	F4	6927	H1	9268	B5		
	2177	D2	2736	F4	3197	D3	3563	D4	5106	B1	6928	H1	9300	G4		
	2180	C2	2738	F4	3198	C3	3565	D4	5160	D1	6932	H1	9301	F5		
	2181	C2	2740	F5	3199	C2	3566	B3	5156	D1	6960	F3	9302	E5		
	2182	A3	2741	F4	3200	A4	3567	C4	5167	D1	6965	F2	9303	E5		
	2183	A3	2748	F4	3205	B3	3568	C4	5161	D1	6970	F1	9304	F5		
	2185	C2	2750	F4	3206	B4	3569	C4	5162	E2	6971	E1	9305	F5		
	2186	C2	2751	E4	3207	B3	3570	D6	5168	E2	6972	F2	9306	E5		
	2187	C2	2756	F4	3208	A3	3571	C6	6174	C3	6976	F1	9312	G4		
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	2190	C2	2758	F4	3210	A3	3573	E3	6182	A2	6983	F2	9325	H5		
	2193	E3	2801	F3	3211	A4	3574	C5	6206	A3	6984	F2	9326	G5		
	2196	D3	2802	F3	3213	A4	3587	C4	6207	A6	7110	B1	9350	F5		
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	2199	D2	2834	F3	3217	A3	3590	C5	6317	G5	7140	E1	9502	E5		
	2207	A4	2836	F3	3218	A3	3591	C5	5331	F5	7143	E2	9503	D5		
	2210	B4	2838	F3	3219	A4	3594	C4	5335	H5	7146	E1	9504	D5		
	2211	A3	2902	G3	3220	A5	3596	D4	5336	H5	7147	E1	9505	D5		
	2218	A4	2910	G1	3221	B4	3598	C4	6344	G5	7156	D1	9506	D5		
	2219	A4	2911	H1	3222	B3	3614	B5	6345	F5	7164	B3	9507	E5		
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	2237	B5	2919	G4	3224	A3	3702	G4	6508	E4	7173	E3	9509	E5		
	2240	A4	2922	H3	3225	A3	3705	E3	5509	E4	7175	E3	9512	C5		
	2245	A4	2923	H3	3228	A3	3707	E4	5549	D3	7182	A2	9514	C5		
	2260	B3	2925	H2	3227	A5	3710	E5	5561	C4	7183	B2	9515	C5		
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	2258	B4	2927	H1	3229	A3	3716	E4	5567	C4	7188	D3	9517	E4		
	2259	B4	2928	H2	3230	A3	3722	F5	5594	C6	7193	D2	9518	D5		
	2263	B5	2929	H1	3235	A5	3723	F4	5595	D5	7196	D3	9519	C6		
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	2290	B4	2931	G3	3237	B5	3728	F5	5901	G2	7198	C2	9522	E5		
	2292	B4	2932	H1	3240	A3	3735	F4	6902	G1	7200	A4	9527	E3		
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	2296	B4	2936	G3	3242	A3	3737	F4	6916	H2	7214	A4	9529	E3		
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	2307	H4	2948	H3	3250	A3	3741	F5	6930	G2	7264	B5	9533	D5		
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	2312	H4	2951	G3	3252	B3	3749	E4	5932	G3	7272	B5	9535	E4		
	2313	G4	2954	H4	3253	B3	3750	F4	6936	G3	7278	B5	9536	D4		
	2314	G5	2963	F1	3254	A3	3754	E5	6977	E2	7300	H4	9539	D4		
	2315	G5	2965	F2	3256	A4	3755	F4	6980	G2	7326	G5	9540	E4		
	2316	G5	2970	F1	3258	A4	3757	E5	6109	B2	7345	G5	9542	E5		
	2317	G5	2971	E2	3259	B5	3800	E4	6110	B1	7346	G5	9550	D4		
	2325	G5	2972	F2	3260	B4	3801	E4	6111	C1	7348	F5	9557	C4		
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	2340	G5	2984	F2	3265	B4	3815	F4	6138	C2	7506	D5	9564	D5		
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	2506	D5	3110	C1	3278	A5	3831	E3	6151	E1	7655	D3	9585	C4		
	2507	E4	3111	C1	3279	A5	3832	E3	6154	E1	7660	C4	9590	C5		
	2509	E4	3113	C1	3290	B4	3833	F3	6155	E1	7661	C3	9595	D5		
	2511	E4	3120	B3	3291	A4	3834	F3	6156	D1	7662	C4	9596	C5		
	2513	E4	3130	C2	3292	B4	3835	F3	6157	D1	7666	C3	9702	F5		
	2516	E4	3136	C2	3294	B4	3838	F3	6158	D1	7672	E3	9704	F3		
	2518	E4	3136	D1	3287	B3	3840	F3	6161	E2	7681	C4	9705	F4		
	2525	D4	3137	B2	3300	G4	3841	F3	6162	A2	7701	F4	9706	E4		
	2526	D4	3138	C2	3307	H4	3842	G3	6163	E2	7713	E4	9707	E4		
	2527	D4	3139	C2	3308	H4	3843	G3	6164	E2	7757	E4	9708	E4		
	2528	D4	3140	D1	3312	G4	3860	G3	6173	E2	7801	F4	9710	F4		
	2531	E3	3141	E1	3314	F5	3861	G3	6174	D2	7820	G4	9713	E4		
	2532	D4	3142	B2	3316	G5	3862	G3	6176	E3	7821	G4	9727	G1		

Synchronization and Deflection

LOT	21"	25" / 28"
2902	-	1µ
2910	3n9	2n2
2925	1n0	560p
2926	-	220p
2930	470n	360n
2931	-	470n
2932	39n	22n
2935	-	4µ7
2936	4µ7	-
2937	68µ	220µ
2946	8n2	4n7
2950	-	68µ
2951	-	270n
2954	22p	-
2963	15n	33n
2965	47n	-
2972	-	10µ
2980	-	2n2
2981	-	1000µ
2984	-	68µ
2992	-	470n
3902	-	1M
3903	-	10k
3904	-	1k
3905	-	680R
3907	-	100k
3908	10k	7k5
3909	200R	470R
3910	200R	-
3911	6k8	-
3912	-	6k8
3930	470R	1k0
3937	3R9	1R5
3939	-	1k
3940	6k8	2k7
3950	-	10R
3951	-	4k3
3954	1R	1k
3955	1R	68k

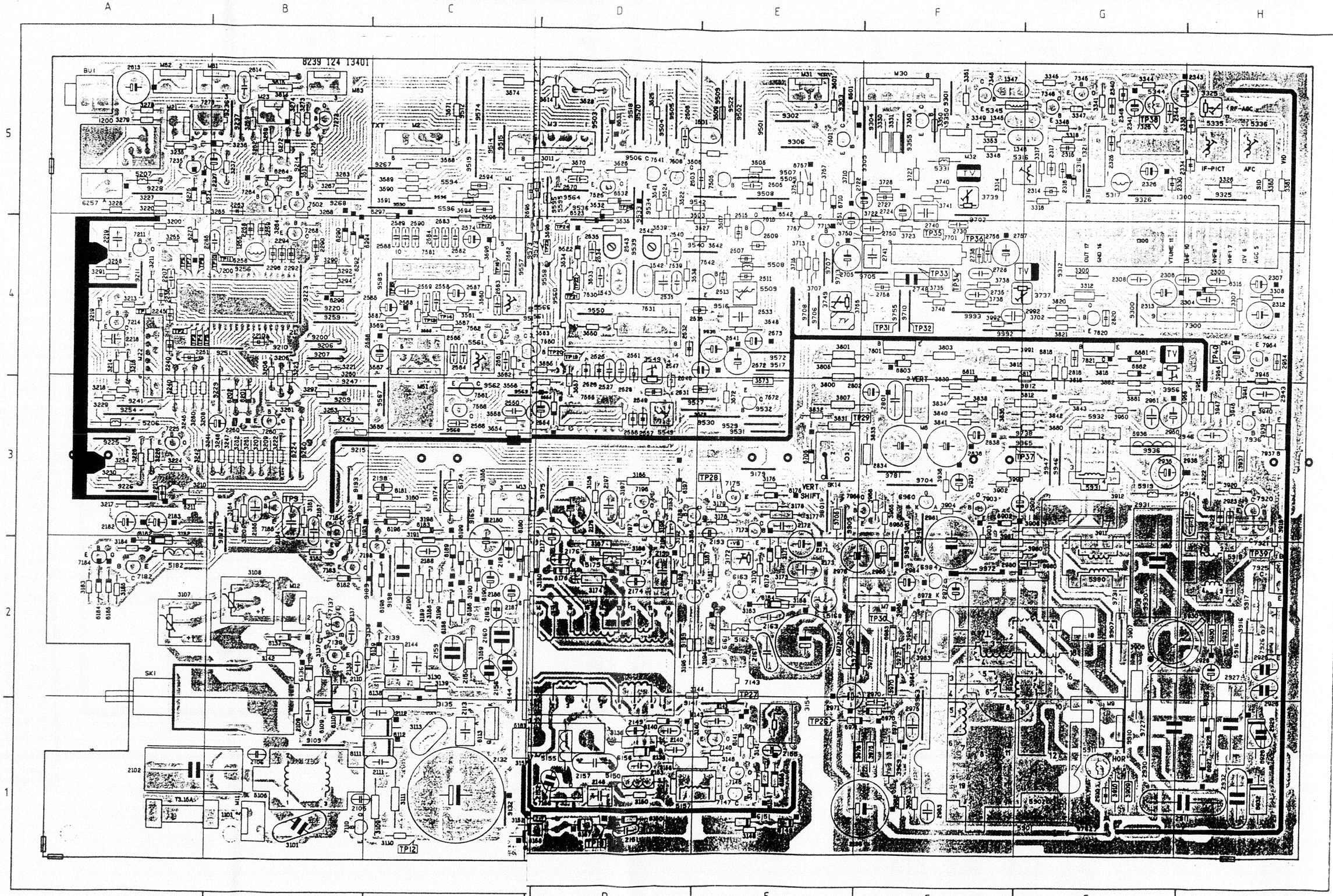
LOT	21"	25" / 28"
3961	-	22k
3962	68k	-
3963	47k	-
3970	10R	3R9
3972	-	10R
3975	1R2	5R6
3976	1R2	5R6
3980	-	1R0
3981	-	1R0
3982	-	1R0
3983	-	1R0
3984	-	1k0
3985	-	5k6
3991	1M0	390R
3992	1M0	-
5916	-	10MHz
5917	10MHz	-
5931	CI10	-
5932	-	tranf.coil
5936	1500µ	-
5980	-	corrector 50Hz
6963	-	1N4148
6972	-	BYD33J
6980	-	BYD33J
6983	-	BYD33J
6984	-	BT149D
7903	-	BC558
7920	BF483	-
7921	-	BF819
7925	BUT11AF	-
7926	-	2SD1577PV
7936	BC636	-
7937	-	2SA1359
9907	jumper	-
9916	jumper	-
9930	jumper	-
9936	-	jumper

FRAME	21"	25" / 28"
2730	1n2	1n8
2802	6µ8	22µ
2816	100p	3p3
2834	220µ	1000µ
2836	220µ	1000µ
2838	68µ	47µ
3740	300k	220k
3800	-	680R
3801	-	680R
3803	15R	1R3
3805	2k4	-
3807	2k4	-
3812	15R	-
3815	160R	18R
3817	-	3k0
3818	-	100R
3830	1k0	270R
3831	15k	1k5
3832	33k	2k2
3833	24R	1R3
3834	11k	3k6
3835	430R	560R
3838	24R	20R
3840	1R5	2R2
3841	-	2R2
3842	-	13k
3843	-	8k2
3860	-	1k0
3861	-	0R0
3862	-	0R0
6816	-	BA315
6861	-	1N4148
6862	-	1N4148
7801	BD94	2SD1266
7821	BD94	2SD1266
9781	-	jumper
9801	jumper	-
9812	-	jumper
9817	jumper	-
9818	jumper	-
9842	jumper	-
9861	-	jumper
9862	-	jumper

Measured at

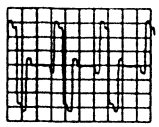
1060 Carrier Panel (Component side)

1060 Carrier Panel (Componenent side)

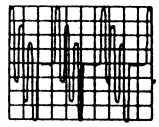


Video Processing

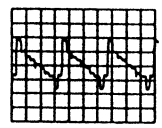
D



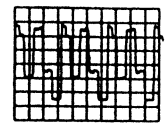
0.2V/DIV 20μs/DIV
TP13



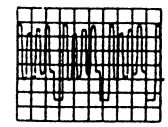
0.2V/DIV 20μs/DIV
TP14



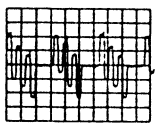
0.1V/DIV 20μs/DIV
TP15



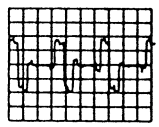
1V/DIV 20μs/DIV
TP16



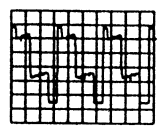
1V/DIV 20μs/DIV
TP17



0.2V/DIV 20μs/DIV
TP19

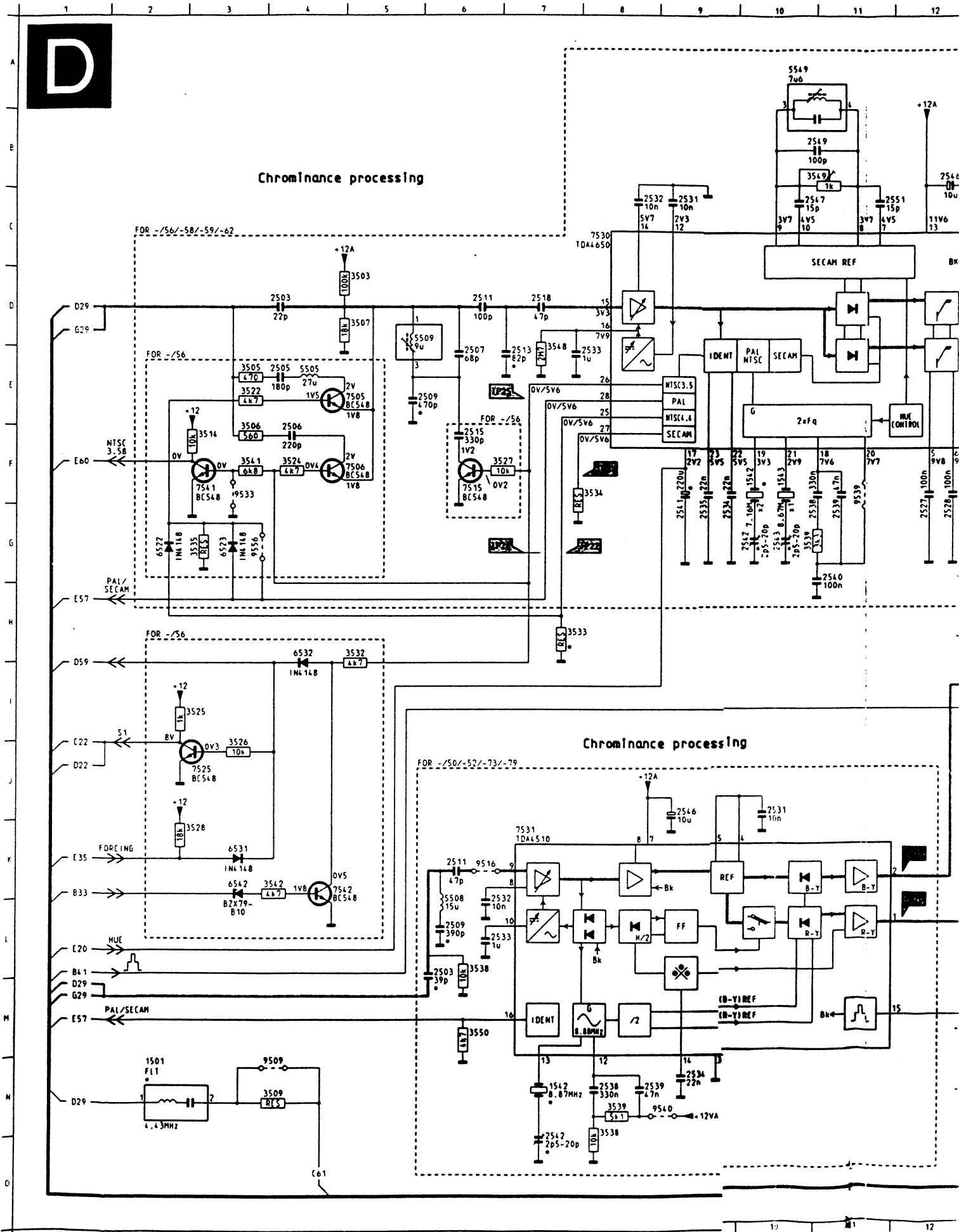


0.2V/DIV 20μs/DIV
TP20



1V/DIV 20μs/DIV
TP23

Measured with a PAL colour bar


D
Chrominance processing
FOR -/56/-58/-59/-62
FOR -/56
FOR -/56
FOR -/56
Chrominance processing
FOR -/50/-52/-73/-79
7530 TDA4650
7531 TDA4510
SECAM REF
IDENT
PAL NTSC
SECAM
NTSC3.5
PAL
NTSC4.4
SECAM
2xFq
HUE CONTROL
REF
FF
IDENT
NTSC 3.58
PAL/SECAM
FORCING
HUE
PAL/SECAM
4.43MHz
8.87MHz
+12A
+12VA
0V/5V6
D29
G29
E60
E57
D59
C22
D22
E35
B33
E20
B41
C61

D

Video controller

e processing

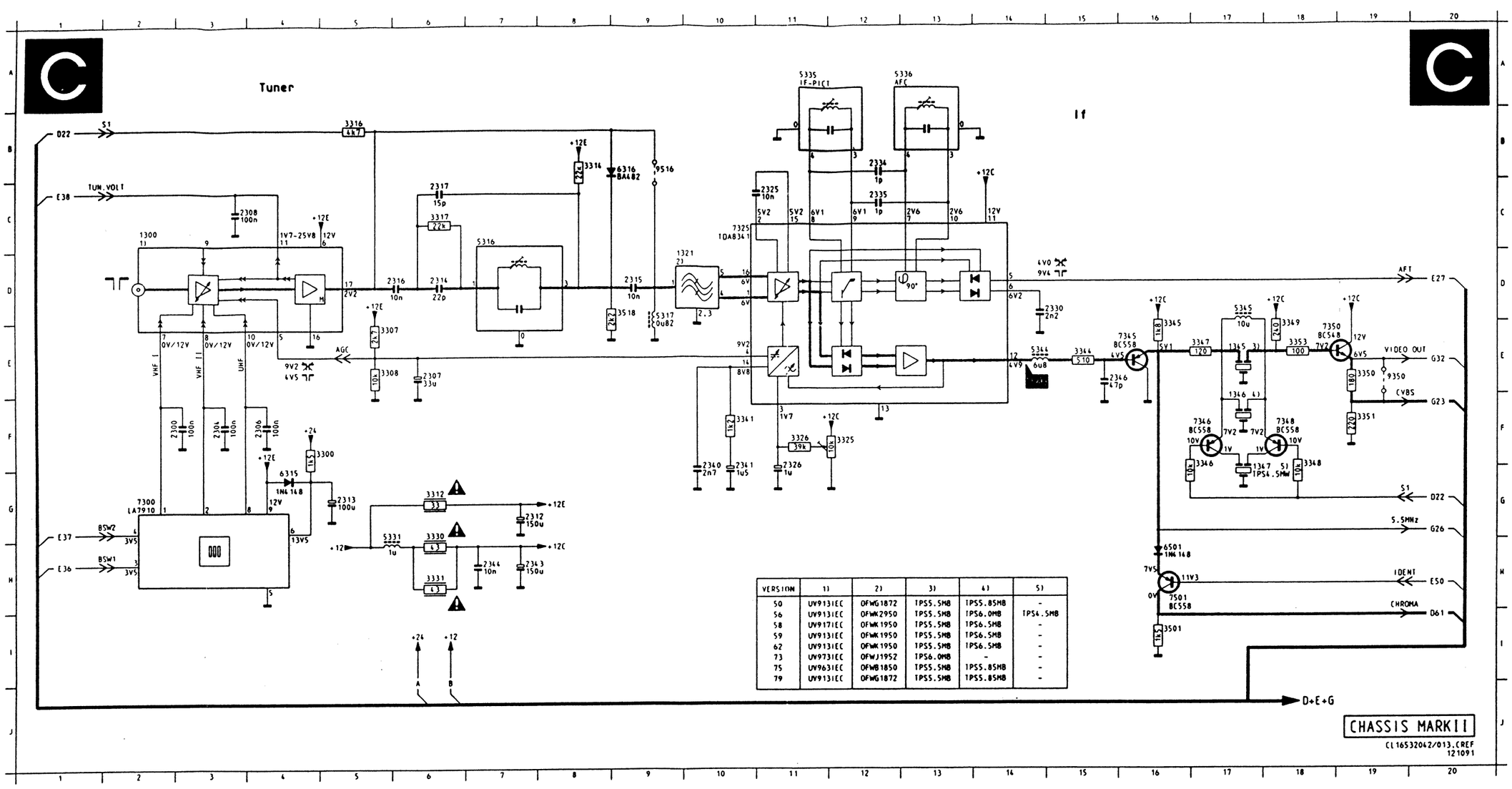
ITEM	-/56	-/50/52/73/79	-/58/59/62	-/75
1501	4.43MHz	-	-	-
1542	7.159MHz	8.867MHz	-	8.867MHz
2503	22p	39p	180p	39p
2509	470p	390p	470p	390p
2513	82p	-	82p	-
2541	220u	-	-	-
2542	-	2p5-20p	-	2p5-20p
2543	2p5-20p	-	2p5-20p	-
2564	47p	33p	33p	33p
2565	47p	33p	33p	33p
3533	-	-	20k	-
3560	10	68	68	68
3561	68	10	10	10
3568	680	680	680	470
3570	560	560	560	680
5567	DL330	DL330	DL330	DL470
7566	BC548	BC548C	BC548	BC548C

CHASSIS MARK II

CL16532042/014.DREF 121091

B+C+E+F+G

CS 58 128



VERSION	1)	2)	3)	4)	5)
50	UV913IEC	OFWG1872	TPS5.5MB	TPS5.85MB	-
56	UV913IEC	OFWK2950	TPS5.5MB	TPS6.0MB	TPS4.5MB
58	UV917IEC	OFWK1950	TPS5.5MB	TPS6.5MB	-
59	UV913IEC	OFWK1950	TPS5.5MB	TPS6.5MB	-
62	UV913IEC	OFWK1950	TPS5.5MB	TPS6.5MB	-
73	UV973IEC	OFWJ1952	TPS6.0MB	-	-
75	UV963IEC	OFWB1850	TPS5.5MB	TPS5.85MB	-
79	UV913IEC	OFWG1872	TPS5.5MB	TPS5.85MB	-

0.5V/DIV 20µs/DIV
TP38

Measured with a PAL colour bar

E

Control

1210 LOCAL KEYBOARD

SK2 SK7 AS SK3 SK11 HUE R SK8 SK4 SK12 SK9 SK5 HUE G SK13 C+ SK10 SK6 C-

6M22 1M22 2M22 3M22 4M22 5M22

1100 IR TRANSM.

1200 IR RECEIVER

OGL N81RPH

7200 TMP47C634

TEST RES CONTROL POR G 4MHz 1V IDENT. OSD PAL/SECAM NTSC 3.58 50/60Hz ON SCREEN DISPLAY DATA PROCESSOR

I²C

TUN. VOLT C38 AFT C27 50/60Hz B34 HUE D20 G17 D18 D19 D15 STANDBY A2 SCL D54 G54 SDA D53 G53

RESET A5 COINCIDENCE B39 PAL SECAM D57 FORCING D35 IDENT. C50 NTSC 3.58 D60 A0 E10 A1 E9 B41 RED D13 GREEN D12 BLUE D11 BLANKING D7

	A0	A1
	38	37
TV	2V5	3V6
AV	0V	3V6
S1	2V5	0V
S2	0V	0V

7278 S124(02CP MEMORY

CHASSIS MARK II

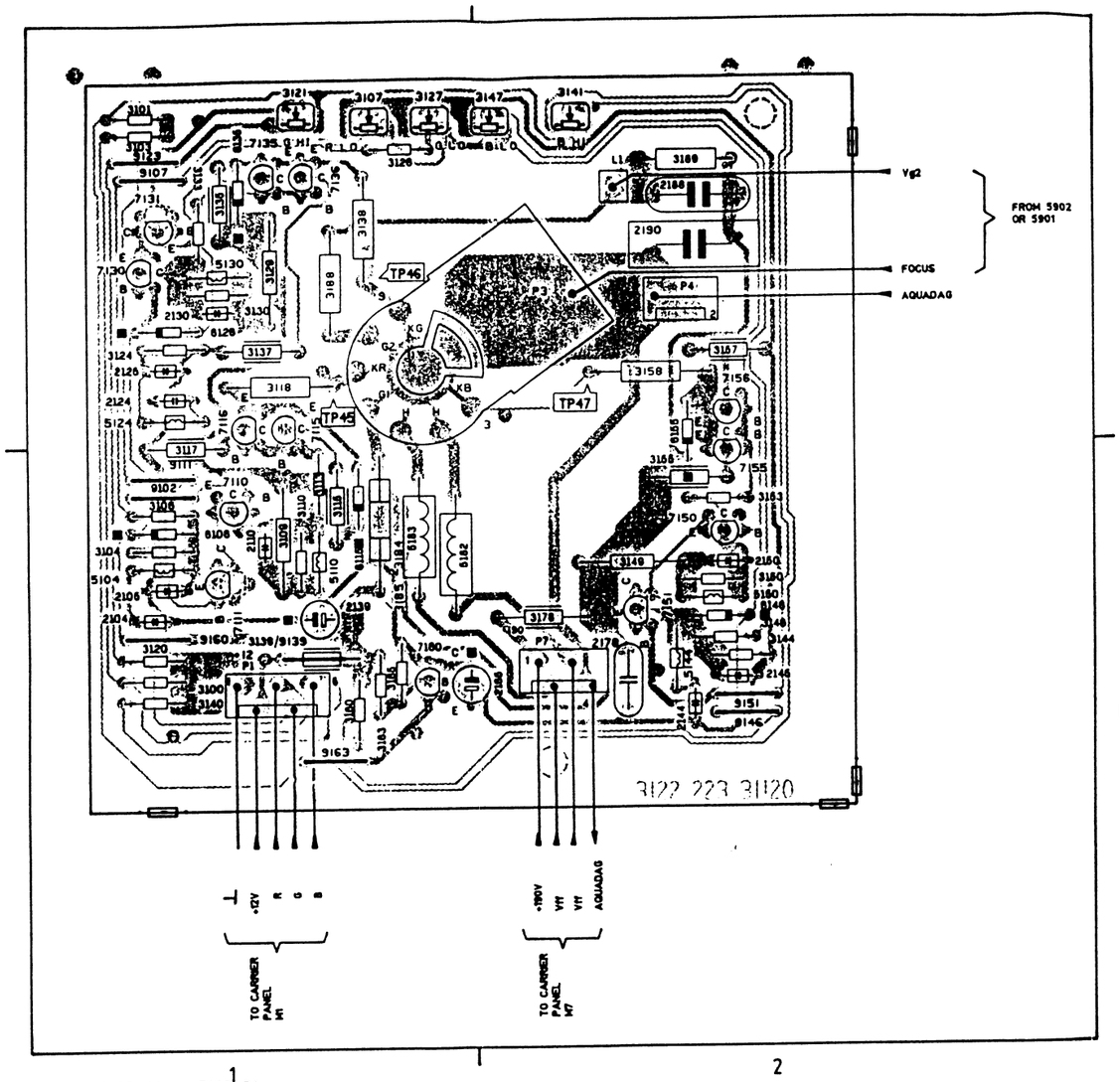
CL16532042/015_CREF 121091

A+B+C+D+G

CS 58 129

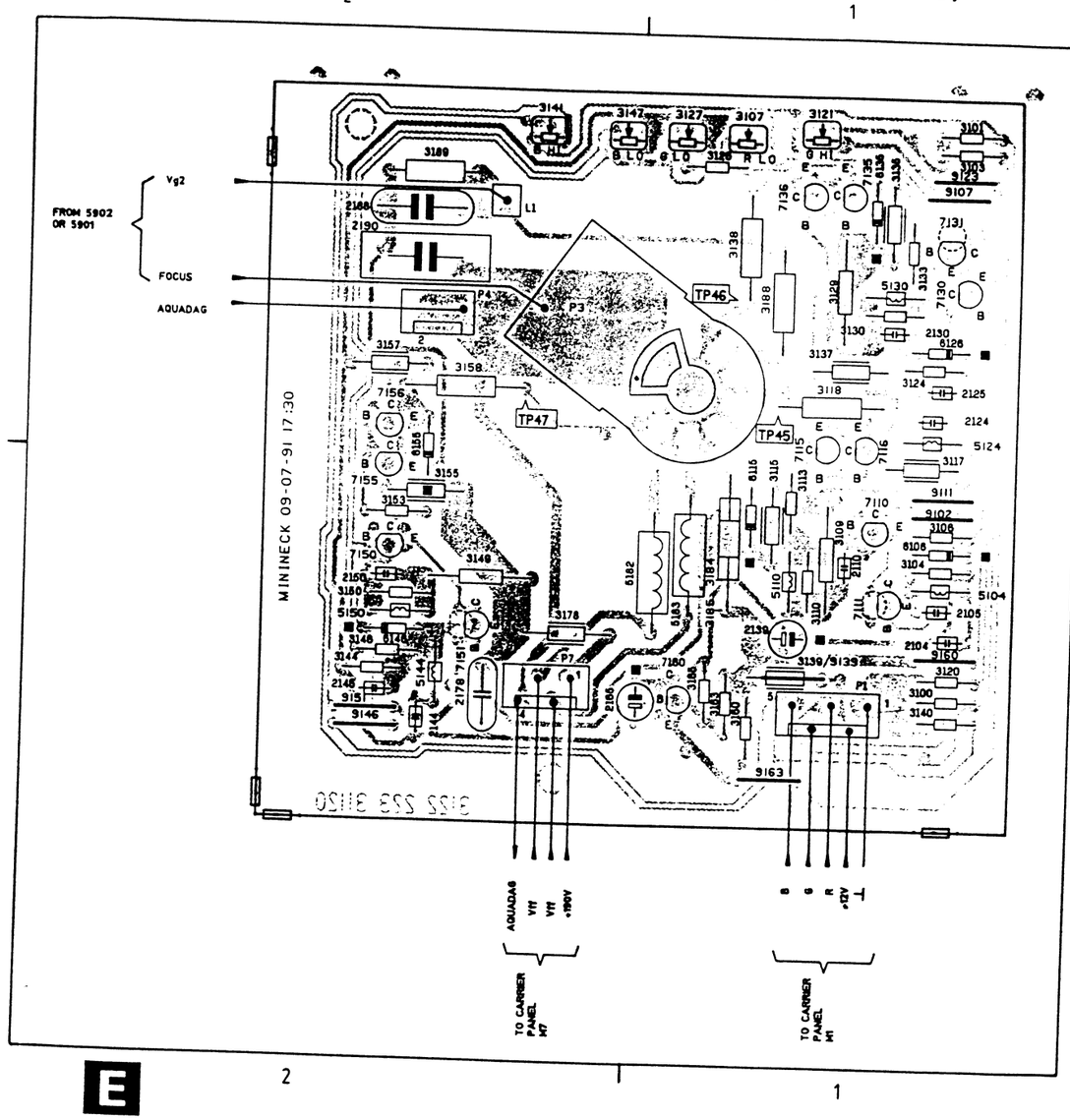
1100	F 2
1200	F 3
1210	B 2
1255	M 8
2207	C10
2210	I 7
2211	C12
2218	D13
2219	D14
2235	G10
2237	G14
2240	H10
2246	I10
2250	J11
2251	J10
2258	J 7
2259	J 7
2263	M 7
2285	N 7
2290	N 8
2292	N 9
2294	N10
2296	N11
3200	G 8
3205	B 9
3206	B 9
3207	F14
3208	F13
3209	F14
3210	B11
3211	G11
3213	C11
3214	C12
3216	C12
3217	B13
3218	C13
3219	C13
3220	C14
3221	E12
3222	E12
3223	D11
3224	D11
3225	E12
3226	D12
3227	C14
3228	D15
3229	D15
3230	E15
3235	G12
3236	F13
3237	G13
3240	H14
3241	G15
3242	H15
3245	I13
3246	H13
3247	I13
3250	I11
3251	I12
3252	J12
3253	I12
3255	M12
3258	G 8
3259	M12
3260	K 5
3261	J 6
3262	L 6
3263	M 5
3264	M 5
3265	M 7
3267	N 5
3268	N 5
3269	M 6
3273	L 2
3274	M 3
3275	M 1
3278	M15
3279	M16
3290	N 8
3292	N 9
3294	N 9
3297	M11
3513	N 1
5206	B14
5207	A14
5258	J 8
6201	F 7
6202	F 7
6211	C11
6257	G 7
6264	L 6
6272	M 3
6273	L 4
6274	M 4
6275	M 4
6290	N 8
6292	N 9
6294	N 9
6295	N10
6297	N10
7200	C 8
7211	G11
7214	C11
7225	D11
7235	G13
7260	K 6
7264	L 6
7268	M 6
7272	M 2
7278	M17
7502	N 2

1040 CRT Panel (Cupper side)

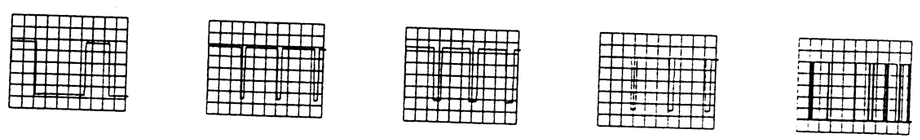


2104	B1	3138	A1	7110	B1
2105	B1	3139	B1	7111	B1
2110	B1	3140	B1	7115	A1
2124	A1	3141	A2	7118	A1
2126	A1	3144	B2	7130	A1
2130	A1	3146	B2	7131	A1
2138	B1	3147	A2	7135	A1
2144	B2	3149	B2	7136	A1
2145	B2	3150	B2	7150	B2
2150	B2	3153	B2	7151	B2
2165	B1	3155	B2	7155	B2
2188	A2	3157	A2	7156	A2
2190	A2	3158	A2	7160	B1
3100	B1	3160	B1	9102	B1
3101	A1	3163	B1	9107	A1
3103	A1	3165	B1	9111	B1
3104	B1	3178	B2	9123	A1
3106	B1	3184	B1	9139	B1
3107	A1	3185	B1	9146	B2
3109	B1	3188	A1	9151	B2
3110	B1	3189	A2	9160	B1
3113	B1	6104	B1	9163	B1
3115	B1	6110	B1	L1	A2
3117	B1	6124	A1	P1	B1
3118	A1	6130	A1	P3	A1
3120	B1	6144	B2	P4	A2
3121	A1	6150	B2	P7	B2
3124	A1	6182	B1		
3126	A1	6183	B1		
3127	A1	6106	B1		
3129	A1	6116	B1		
3130	A1	6126	A1		
3133	A1	6136	A1		
3136	A1	6146	B2		
3137	A1	6156	A2		

1040 CRT Panel (Component side)



E

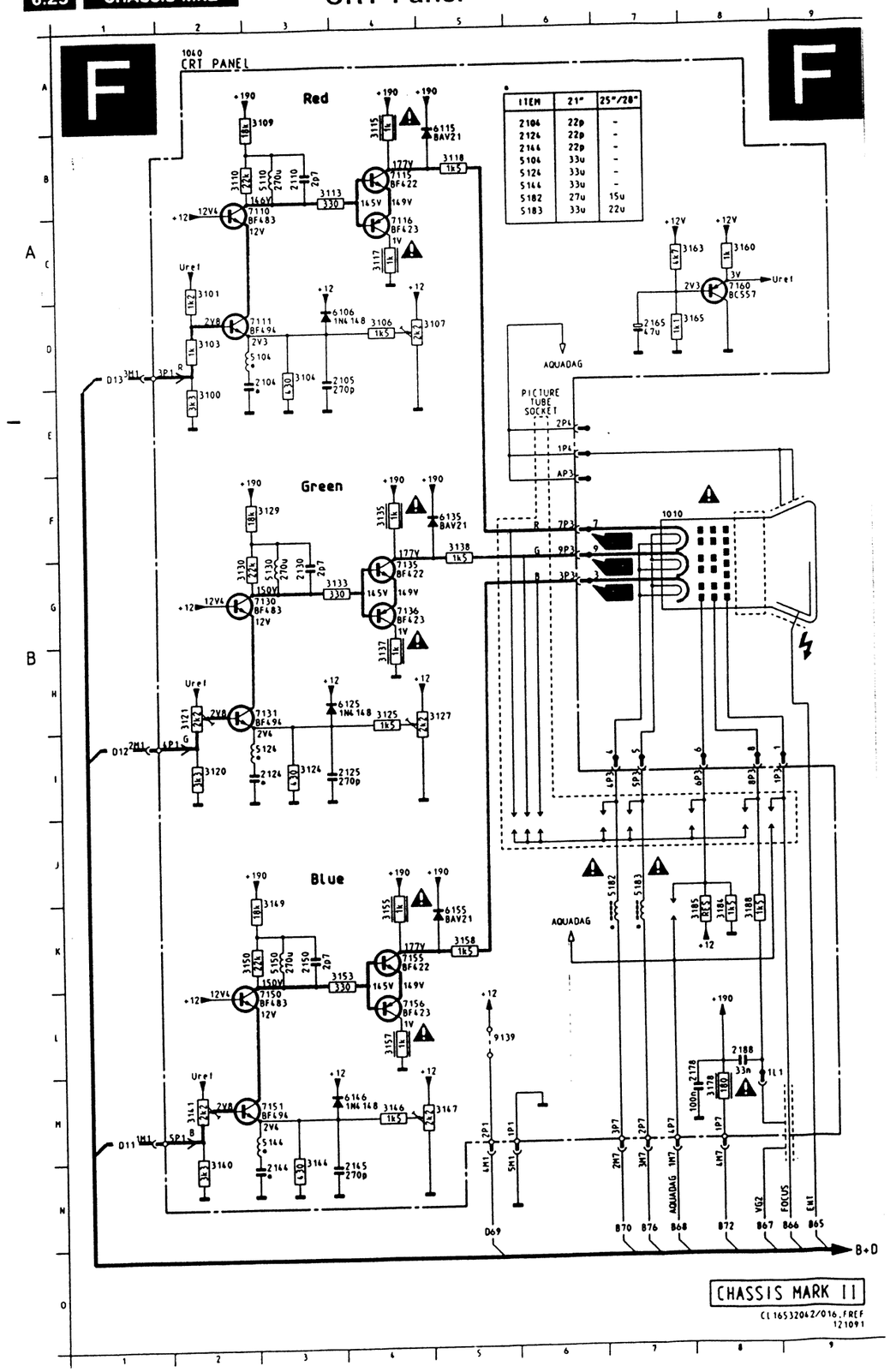


1V/DIV 5µs/DIV TP1 | 1V/DIV 10µs/DIV TP2 | 1V/DIV 10µs/DIV TP3 | 1V/DIV 10µs/DIV TP4 | 1V/DIV 0.1s/DIV TP5

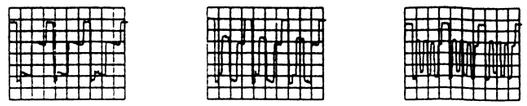
Measured at ⋇

Duty cycle of squarewaves at TP1, 2, 3 and 4 depends on volume-, brightness-, saturation- and contrast settings
Duty cycle varies from 1 - 100%

CRT Panel



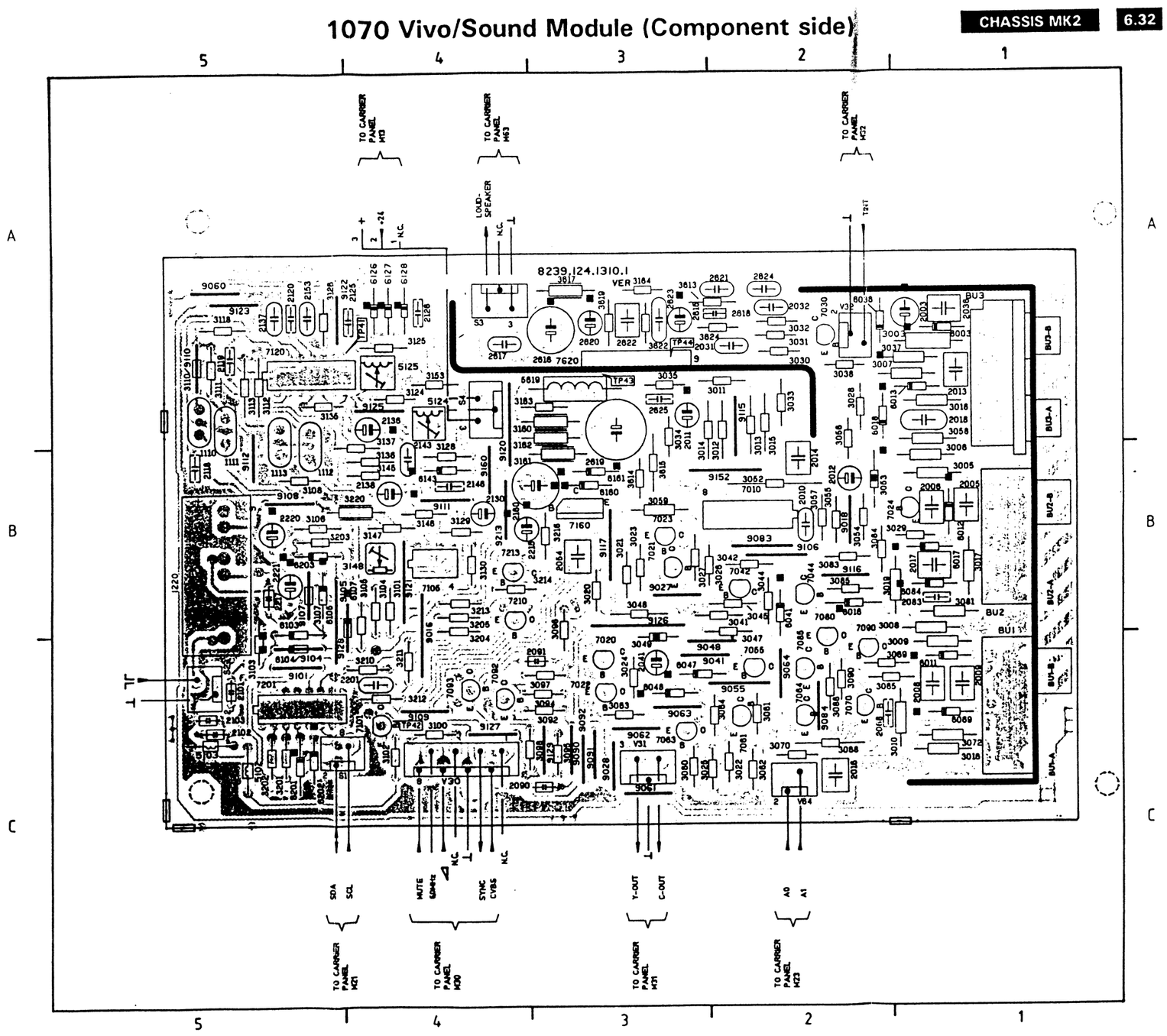
F



20V/DIV 20µs/DIV TP45 | 20V/DIV 20µs/DIV TP46 | 20V/DIV 20µs/DIV TP47

Measured with a PAL colour bar

1070 Vivo/Sound Module (Component side)



1070 Vivo/Sound Module

G

1070 VIVO SOUND PANEL

Sound demodulator

Source selection

Simulcast

A1	A0	
0	0	SVHS2
0	1	SVHS1
1	0	VIDEO EXT
0	1	VIDEO INT

G

Source selection

** MOUNTED ON HEATSINK

Sound output amplifier

A1	A0	
0	0	SVHS2
0	1	SVHS1
1	0	VIDEO EXT
0	1	VIDEO INT

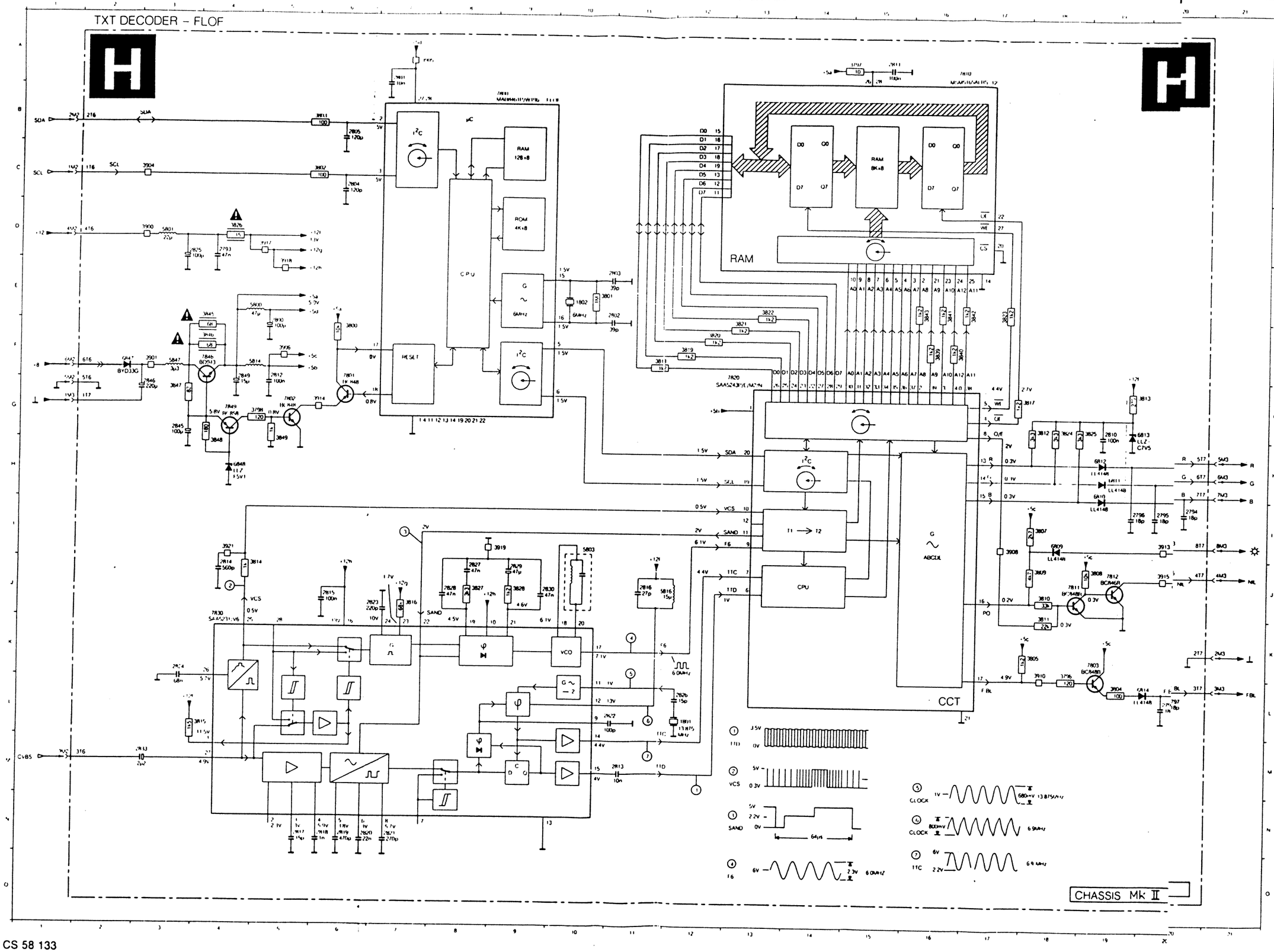
ITEM	/500-/750 /520-/790 /620	/560	/730	/580-/590
1110	•	•	-	•
1111	-	•	•	-
1112	-	•	•	-
1113	-	•	-	•
2125	-	•	-	•
2126	-	•	-	•
2130	-	•	-	•
2138	-	•	-	•
2143	-	•	-	•
2146	-	•	-	•
3100	-	•	-	•
3101	-	•	-	•
3104	-	•	-	•
3105	-	•	-	•
3106	-	•	-	•
3108	-	•	-	•
3110	•	•	-	•
3111	-	•	•	-
3112	-	•	•	-
3113	-	•	-	•
3124	-	-	•	-
3126	-	•	-	•
3128	-	•	-	•
3129	-	•	-	•
3130	-	•	-	•
3136	-	•	-	•
3137	-	•	-	•
3145	-	•	-	•
3146	-	•	-	•
3147	-	•	-	•
3148	-	•	-	•
5124	-	-	•	-
5125	8u	12uS	6u	12uS
6103	-	•	-	-
6104	-	•	•	-
6105	-	•	•	-
6107	-	•	•	-
6126	-	•	-	•
6127	-	•	-	•
6128	-	•	-	•
6143	-	•	-	•
7101	-	•	-	-
7105	-	•	-	•
9125	•	•	-	•

1070	A 2	3065	K19	7085	M21
1110	C 7	3068	K19	7090	N20
1111	D 7	3069	L19	7092	I25
1112	E 7	3070	L18	7093	I26
1113	F 7	3072	L18	7101	G 3
1220	J 6	3081	M14	7105	G11
2003	F26	3083	M17	7105	F 4
2005	D14	3085	M18	7120	D 9
2006	C14	3088	N18	7160	H 4
2008	B14	3090	N18	7201	J 3
2009	B14	3092	I24	7210	M 7
2010	B19	3094	M17	7213	M 8
2011	B15	3095	H24	7620	B23
2012	I15	3095	I24	9055	K22
2013	E27	3096	H25	9090	I23
2014	D16	3097	I25	9091	J26
2016	F14	3098	I26	9104	F 5
2017	F14	3100	G 3	9107	C 6
2018	G14	3101	F 3	9110	C 7
2031	C21	3102	D 2	9125	H10
2032	D22	3103	D 4	9128	F 6
2035	A23	3104	F 4	9162	A16
2041	F21	3105	G 5		
2045	G14	3106	D 6		
2068	K18	3107	C 6		
2083	M15	3108	E 6		
2090	I23	3110	C 7		
2091	M25	3111	D 7		
2101	D 4	3112	E 7		
2102	D 3	3113	F 7		
2103	D 3	3118	D 8		
2118	E 8	3124	J11		
2119	E 8	3125	J10		
2120	D11	3126	L11		
2125	K10	3128	L10		
2126	K11	3129	G 6		
2130	G 6	3130	G 6		
2136	C10	3135	B11		
2137	G11	3136	E12		
2138	G11	3137	G11		
2143	K11	3145	J11		
2146	M12	3146	J12		
2153	E15	3147	E11		
2160	M 4	3148	F11		
2201	I 5	3153	E14		
2215	M 7	3160	G 3		
2217	C 5	3161	H 3		
2220	K 8	3162	H 3		
2221	K 7	3163	I 3		
2613	D28	3201	L 5		
2614	D29	3202	L 5		
2615	E24	3203	K 6		
2616	C27	3204	K 6		
2617	C27	3205	L 6		
2618	E26	3210	M 6		
2619	C26	3211	N 6		
2620	B24	3212	N 7		
2621	E25	3213	L 8		
2622	E24	3214	M 8		
2623	D24	3216	M 6		
2624	C22	3220	K 8		
2625	B23	3613	E25		
3003	F27	3614	E23		
3005	D14	3614	D29		
3006	C14	3615	D23		
3007	E26	3615	B28		
3008	B14	3617	D26		
3009	B14	3619	A25		
3010	F14	3622	D24		
3011	B16	3624	C23		
3012	B16	5102	D 3		
3013	B16	5103	D 4		
3014	B16	5124	I11		
3015	B16	5125	I10		
3016	H14	5619	A26		
3017	H13	6003	F26		
3018	H13	6011	C17		
3019	F14	6012	C17		
3020	H18	6013	D17		
3021	I18	6016	F17		
3022	J17	6017	F17		
3023	J19	6018	G17		
3024	J19	6036	B23		
3025	J17	6041	F20		
3026	H20	6047	G21		
3027	H20	6048	G21		
3028	H17	6069	L19		
3029	H18	6084	H15		
3030	C21	6103	D 5		
3031	D21	6104	E 5		
3032	C21	6105	D 6		
3033	A22	6107	E 6		
3034	C20	6126	K10		
3035	D20	6127	K10		
3037	A23	6128	L10		
3038	B22	6143	J11		
3041	F21	6160	I 4		
3042	F22	6161	I 5		
3044	G22	6201	L 2		
3045	G22	6202	L 3		
3047	G21	6203	K 6		
3048	I20	7010	B18		
3049	I21	7020	I18		
3052	H16	7021	I19		
3053	H16	7022	J19		
3054	H16	7023	J20		
3055	H16	7024	H17		
3056	G14	7030	C22		
3056	I16	7042	F22		
3057	H15	7044	G22		
3059	G14	7055	I21		
3060	L24	7061	K22		
3061	L22	7063	L23		
3062	M21	7064	K20		
3063	L23	7070	L20		
3064	K21	7080	N19		

CHASSIS MARK II

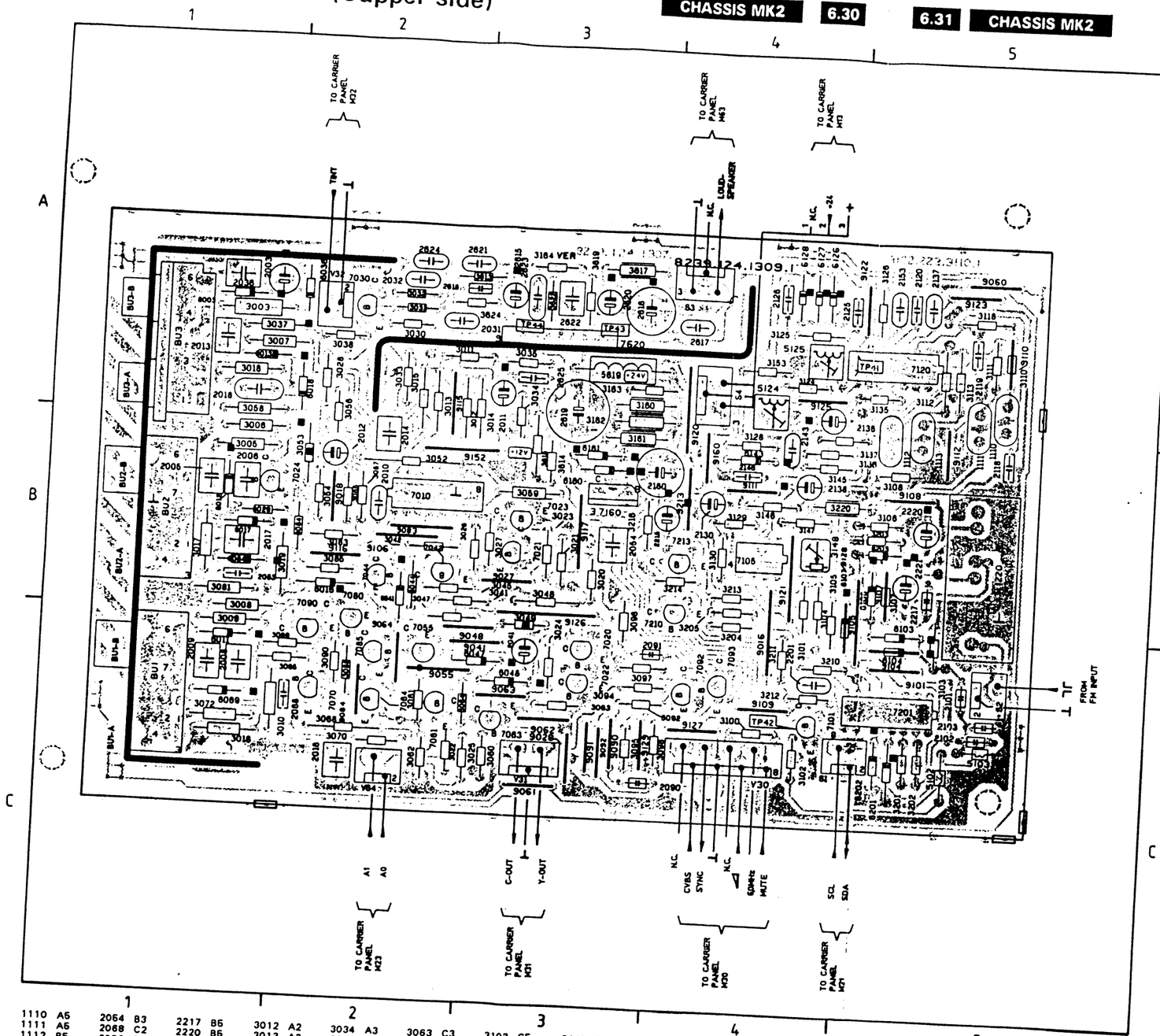
CL16532042/017.GREF
281091

TXT DECODER – FLOF



1070 Vivo/Sound Module (Cupper side)

CHASSIS MK2 | 6.30 | 6.31 | CHASSIS MK2



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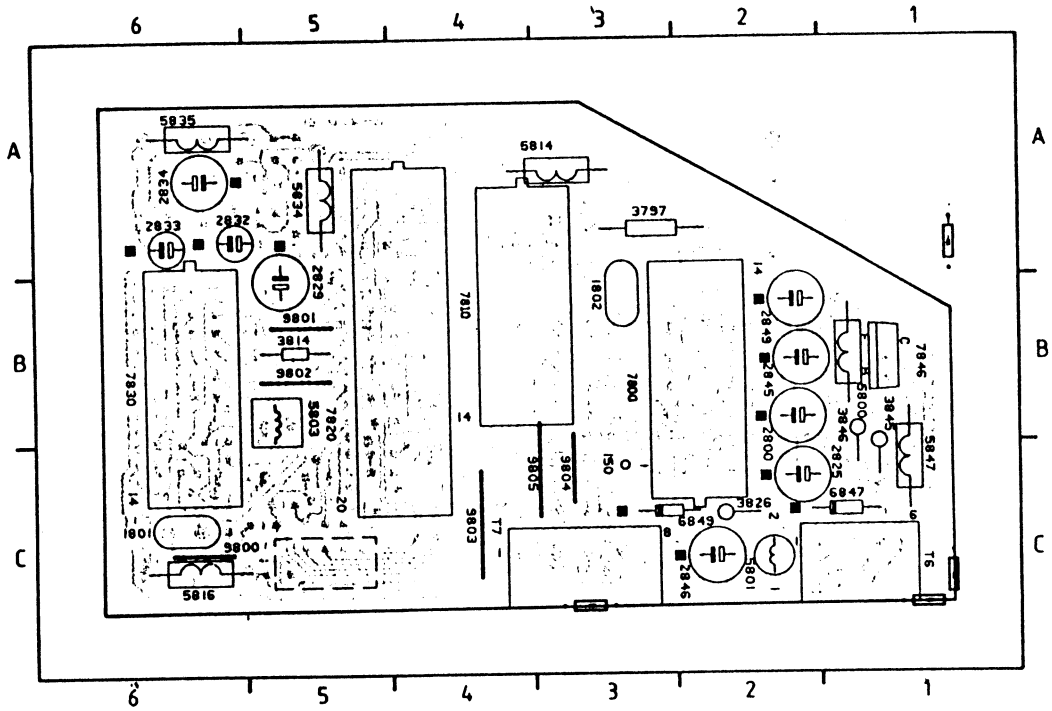
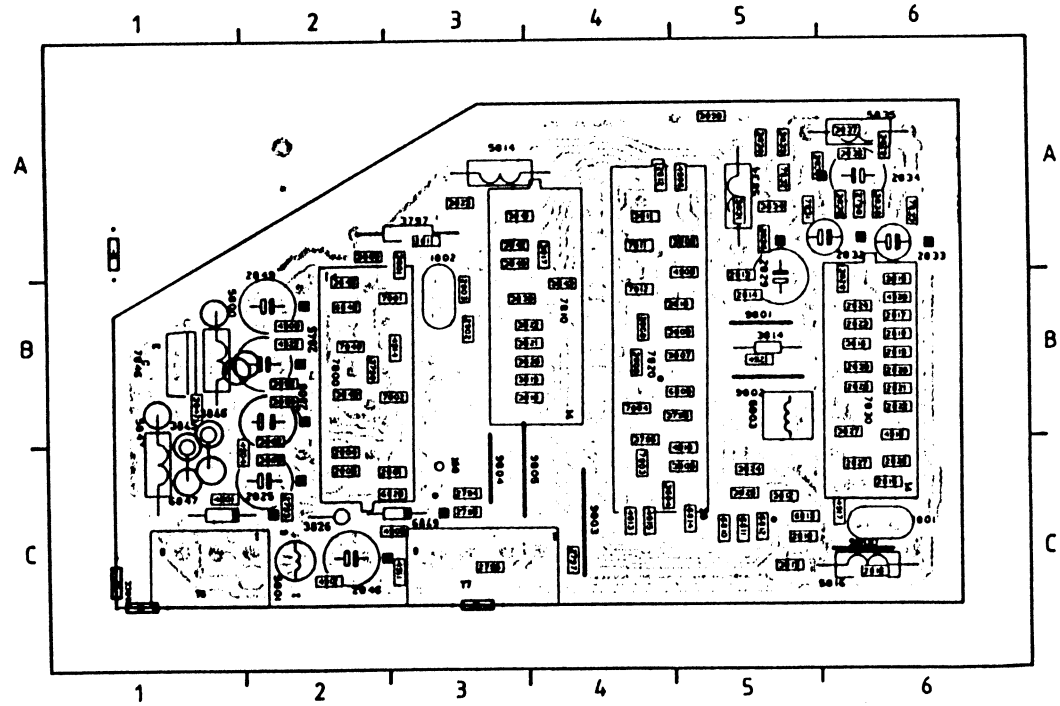
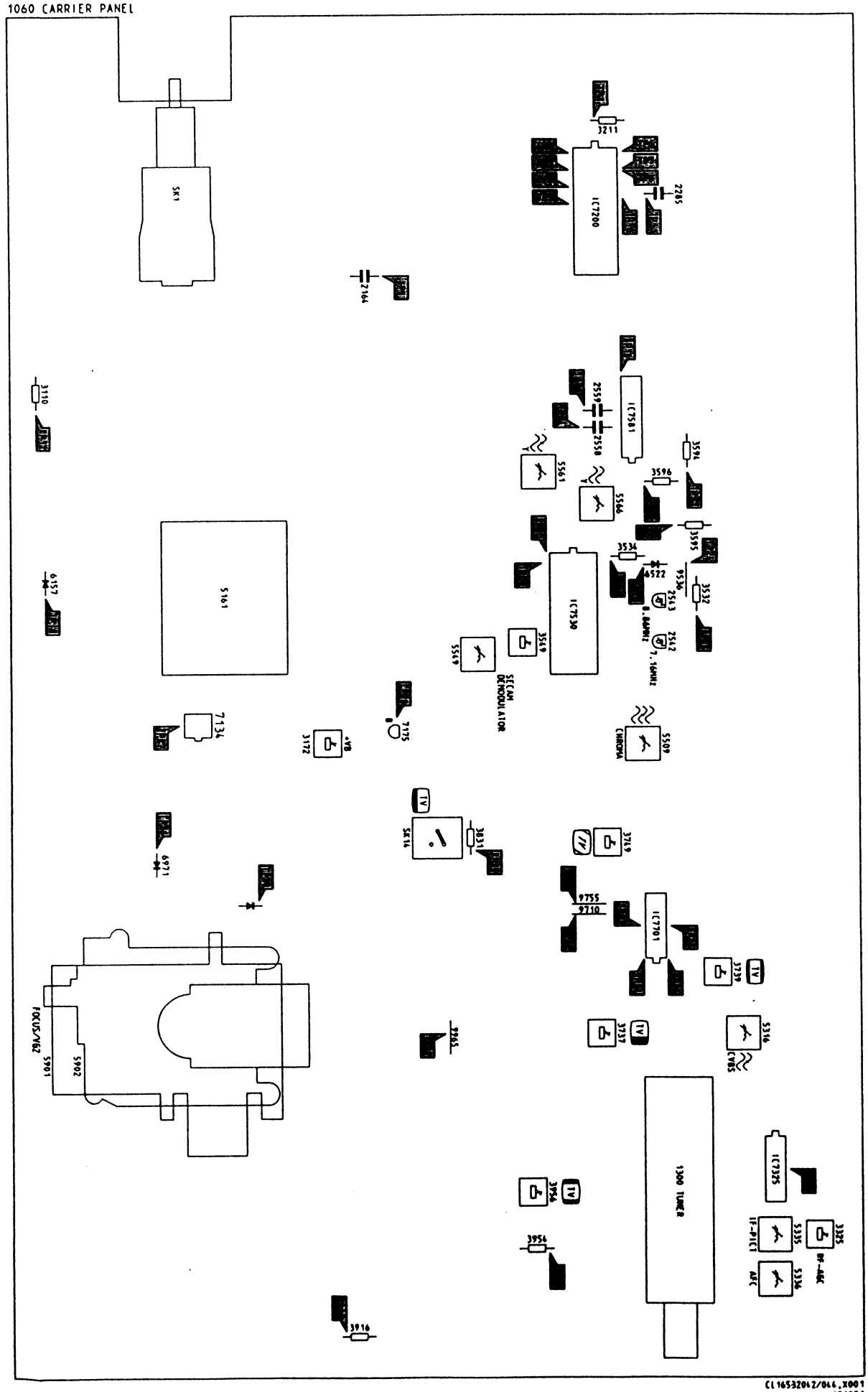
| | | |

TXT Panel



1801	C6	2814	B5	2834	A6	3811	A4	3830	A5	3850	B2	6800	B1	7801	B2	9806	C4
1802	A3	2815	C6	2836	A5	3812	C5	3831	A5	3852	B2	6801	C2	7802	B2	T6	C1
2793	C2	2816	C6	2848	C2	3813	C5	3832	A5	3999	A5	6803	B5	7803	C4	T7	C3
2794	C3	2817	B6	2849	B2	3814	B6	3833	A5	4900	B2	6814	A3	7804	B4		
2795	C3	2818	B6	3795	B4	3815	B6	3834	A5	4901	C1	6816	C6	7810	B4		
2796	C3	2819	B6	3796	C4	3816	B6	3835	A6	4904	C1	6834	A6	7811	A4		
2797	C4	2820	B6	3797	A3	3817	A4	3836	A6	4905	C2	6835	A6	7812	B4		
2798	A6	2821	B6	3798	B2	3818	B3	3837	A6	4906	A6	6847	B1	7820	B4		
2800	B2	2822	B6	3800	A2	3819	B3	3838	A6	4908	B6	6809	B4	7830	B6		
2801	C2	2823	B6	3801	A3	3820	B3	3839	B3	4910	C4	6810	C5	7831	A5		
2802	B3	2824	B6	3802	B2	3821	B3	3840	A3	4911	C3	6811	C5	7832	A6		
2803	B3	2826	C2	3803	C2	3822	B3	3841	A3	4912	C2	6812	C6	7833	A6		
2804	C2	2826	C6	3804	C4	3823	A3	3842	A3	4913	C4	6813	C5	7846	B1		
2805	C2	2827	C6	3805	C4	3824	C5	3843	B4	4915	C4	6814	C5	7849	B2		
2808	B4	2828	B6	3806	B4	3825	C5	3845	B1	4917	C6	6820	C2	9800	C6		
2810	C5	2829	A5	3807	B4	3826	C2	3846	B1	4918	B6	6847	C1	9801	B5		
2811	A3	2830	B6	3808	A5	3827	B6	3847	B1	4920	B6	6848	B2	9802	B5		
2812	A4	2832	A6	3809	B4	3828	B6	3848	B2	4921	B5	6849	C3	9803	C4		
2813	B5	2833	A6	3810	B4	3829	A6	3849	B2	4922	B2	7800	B2	9804	C3		




1060 CARRIER PANEL
SK1
IC7200
IC7501
IC7530
IC7701
IC7325
1300 TUNER
SECAM DEMODULATOR
CHROMA
CVBS
IF-PLL
AFC
FOCUS/VR2
CL16532062/044.X0001
121091

CS 58 134

Note: Where the adjustment mention a generator signal, colour pattern generator PM5518 has been used.

1. Settings on the carrier panel

1.1 +147V (95V) power supply voltage
Connect a voltmeter (DC) across C2162. Adjust potentiometer 3172 to +147V ± 0.5V (25" and 28") or 95V ± 0.5V (21").

1.2 Horizontal synchronization
Short circuit pin 5 of IC7701 to ground.
Apply an aerial signal.
Adjust potentiometer 3749 until the picture is straight. Remove the short circuit.

1.3 Horizontal centring
Set the brightness and contrast control to nominal.
Adjust with potentiometer 3737.

1.4 Picture width
Is adjusted with potentiometer 3956.

1.5 Vertical centring
Is adjusted with switch SK14.

1.6 Picture height
Is adjusted with potentiometer 3739.

1.7 Focusing
Is adjusted with the focusing potentiometer in the line output transformer.

1.8 RF AGC
If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3325 until the picture shows no distortion.

1.9 Chroma bandpass filter
To carry out these alignments, it is recommended to have the set switched off!

a. **4.43 MHz**
Connect a generator which can provide a 4.433MHz sinewave (e.g. PM5138) to resistor R3570. Set amplitude of the signal to $0.3V_{pp}$.
Short circuit emitter and collector of TS7561 and emitter and collector of TS7566.
Connect probe to pin 11 of IC7581.
Adjust L5561 for minimum amplitude of the 4.43MHz signal.
Remove short circuits.

b. **3.58MHz (if applicable)**
Set the generator to 3.580MHz.
Short circuit emitter and collector of TS7562 and emitter and collector of TS7566.
Connect probe to pin 11 of IC7581.
Adjust L5566 for minimum amplitude of the 3.58MHz signal.
Remove short circuits.

1.10 Circuit "Cloche": 4.286MHz (only sets with SECAM)
Use a signal generator with a colour bar according SECAM norm.
Adjust L5509 until there is no distortion on the picture.

1.11 Subcarrier oscillator

a. **PAL sets (TDA4510)**
Apply a PAL colour signal with 4.43MHz subcarrier. Connect point 11 of IC7531 to ground. Adjust C2542 until the colour is practically stable. Remove the interconnection.

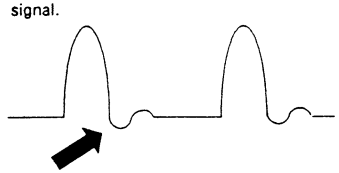
b. **PAL/SECAM sets (TDA4650)**
Apply a PAL colour signal with 4.43Mhz subcarrier Connect point 17 of IC7530 to ground. Adjust C2543 until the colour is practically stable. Remove the interconnection.

c. **MULTI system sets (TDA4650)**
Repeat setting 1.14b.
Apply a NTSC colour signal with 3.58Mhz subcarrier. Connect point 17 of IC7520 to ground. Adjust C2542 until the colour is practically stable. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets (TDA4650)
Connect a pattern generator and supply a SECAM black pattern. Connect a probe to pin 3 (B-Y) of IC7530 (channel A). Connect a probe to pin 1 (R-Y IC7530 (channel B). Turn R3549 fully clockwise. Set L5549 to minimum amplitude of the B-Y signal (channel A). Set R3549 to minimum amplitude of the R-Y signal (channel B).
Repeat these settings of L5549 and R3549 for optimal performance.

1.13 The picture demodulator
Connect a signal generator with a cross hatch. Set oscilloscoop to 1μs/DIV. Connect an oscilloscope to pin 12 of IC7325 and adjust L5335 so that the overshoot response is minimum, see fig 7.1.
Select a colour bar signal and verify if the picture is allright.

1.14 Alignment of I.F.-response curve
Connect a signal generator with a cross hatch. Set oscilloscoop to 1μs/DIV. Connect an oscilloscope to pin 12 of IC7325 and adjust L5316 for mimimum distortion and maximum amplitude of the signal.



1.15 AFC
Connect a D.C. voltmeter to pin 5 of IC7325.
Short circuit base and emitter of TS7525.
Connect a signal generator and adjust coil L5336 for a voltage of 6.0V ±0.5V.

2. Settings on the CRT panel

2.1 VG2 adjustment
Connect a signal generator (e.g. PM5515) and set it to white raster pattern.
Set contrast and the Vg_2 potmeter (in line output transformer) minimum. Adjust with brightness control the top video level at pin 3 of plug P1 (on CRT panel) to the same voltage level as the emitter of transistor of transistor TS7160.
Note: store this value as Personal Preference (PP)!
Pre-adjust the black level preset potmeters of each gun, 3107 (R); 3127 (G) and 3147 (B), to give a black level of 150V on pins 7,9 and 3 (RGB for 21") or pins 8,6 and 11 (RGB for 25" / 28") on the picture tube socket.
Adjust the Vg_2 potmeter until one of the colours just becomes visible. Adjust the other two guns by means of the corresponding resistors (3107, 3127 or 3147) until the colours just become visible.

2.2 White-D adjustment
Use the same signal as prescribed in 1.8. Press the PP button if the brightness setting has changed.
Set contrast to nominal.
Adjust potmeters 3121 (R-Y) and 3141 (B-Y) to have a correct White-D picture.
Note: Store nominal values for contrast, saturation and brightness as Personal Preference when settings 1.8 and 1.9 have been carried out.

3. Settings on the Vivo/Sound Module

VERSION	SOUNDCARRIER
/50 /52 /75 /79	5,5 MHz
/56	Multi 4,5 MHz/5,5 MHz/ 6,0 MHz/6,5 MHz
/58 /62	5,5 MHz/6,5 MHz
/73	Simulcast 6,0 MHz TV 10,7 MHz FM

3.1 The 5,5 MHz sound section
Apply a generator signal (PAL or SECAM B/G) who se sound carrier is (FM) modulated with a frequency of for instance 1 kHz.
Measure with an oscilloscope at pin 8 of IC7120 (oscilloscope in the AC mode) and adjust L5125 for a maximum amplitude.

3.2 The 4,5 MHz sound section
Apply a generator signal (NTSC) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz.
Measure with an oscilloscope at pin 8 of IC7120 (oscilloscope in the AC mode) and adjust L5125 for a maximum amplitude.

3.3 The 6,5 MHz sound section
Apply a generator signal (SECAM L) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz.
Connect pin 14 of IC7120 to +12V via a 4k7 resistor. Measure the DC-voltage at pin 8 of IC7120 and take note of this voltage (say V_x).
Disconnect pin 14 from the +12V
Adjust L5124 initially to obtain a DC-voltage of approximately 8,5V on pin 7 of IC7105.
Adjust R3148 until the voltage at pin 8 of IC712 is the measured value V_x.
Readjust L5125 and R3148 until:
- pin 7 of IC7105 = V_x V
- pin 8 of IC7120 = 8.5V

3.4 The 10,7 MHz and 6,0 MHz sound section
Apply a generator signal (PAL or SECAM B/G) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz.
Measure with an oscilloscope at pin 8 of IC712C (oscilloscope in the AC mode) and adjust L5124 maximum amplitude for 10.7MHz and L5125 fo maximum amplitude for 6,0 MHz.

4. Settings on the TXT Panel

Connect pin 22 of IC7830 to ground. Connect a frequency counter to pin 17 of IC7830 and adjus 5803 for 6,000 Mhz ±30 kHz.

Repair tips

Error messages displayed via OSD and flashing LED
(on time is 58msec; off time is variable)

Error message on the screen	Off time (ms) Flashing LED indication	Description of error	Possible defective component
F0	58	Internal Ram	IC7200
F1	87	Timer error	IC7200
F2	116	EEPROM error	IC7278
F3	145	Simulcast error	IC7201
F4	174	TXT-error	IC7800 IC7820

Note:
If there is no picture the off time of the LED indication can be measured by means of an oscilloscope, in order to nevertheless be able to determine which error message has been generated.

060 Carrier Panel

	4822 267 31441	jack 3,5mm	
	4822 255 41242	socket for TS7156	
M1	4822 265 30351	5p male (->P1)	
M1	4822 267 40583	5p female (->P1)	
M2	4822 265 40421	6p male (->T6)	
M3	4822 267 50861	8p male (->T7)	
M6	4822 265 30389	2p male (->defl)	
M6	4822 267 30369	2p female (->defl)	
M7	4822 265 30378	4p male (->P2)	
M7	4822 267 40597	4p female (->P2)	
M9	4822 265 30389	2p male (->defl)	
M9	4822 267 30369	2p female (->defl)	
M11	4822 265 30389	2p male (->mains)	
M11	4822 267 30369	2p female (mains)	
M12	4822 265 30389	2p male (->deg.)	
M12	4822 267 30369	2p female (->deg.)	
M13	4822 264 40207	3p male (->S4)	
M13	4822 267 40582	3p female (->S4)	
M21	4822 265 20464	2p male (->S1)	
M21	4822 265 20438	2p female (->S1)	
M23	4822 265 20464	2p male (->V64)	
M23	4822 265 20438	2p female (->V64)	
M30	4822 267 50861	8p male (->V30)	
M30	4822 265 40253	8p female (->V30)	
M31	4822 264 40207	3p male (->V31)	
M31	4822 267 40582	3p female (->V31)	
M61	4822 264 40207	3p male (->LS)	
M61	4822 267 40582	3p female (->LS)	
M62	4822 265 30389	2p male (->LS)	
M62	4822 267 30639	2p female (->LS)	
M63	4822 264 40207	3p male (->S3)	
M63	4822 267 40582	3p female (->S3)	

Various

4822 177 10964	SWITCH SK14	
4822 256 91573	LED HOLDER	
4822 218 21057	KEYBOARD ASSY	
4822 410 61653	BUTTON PUSH	
4822 403 70538	BRACKET TXT	
4822 256 30274	HOLDER FUSE	
(1100) 4822 276 13193	MAINS SWITCH	
1101 4822 070 33152	FUSE T 3.15A	
(1200) 4822 212 22983	INFRA RED RC5	
(1255) 4822 242 72527	4,00MHz RESON.	
1300 4822 210 10459	UV913/IEC	
1300 4822 210 10462	UV963/IEC	
1300 4822 210 10463	UV973/IEC	
(1300) 4822 210 10405	UV917E/IEC	
1321 4822 242 81078	OFWG1872	
1321 4822 242 72197	OFWK2950	
1321 4822 242 70936	OFWJ1952	
1321 4822 218 20541	OFWB1950	
1321 4822 242 71613	OFWK1950	
1345 4822 242 72086	5,5 MHz	
1345 4822 153 30025	6,0 MHz	
1346 4822 242 81079	5.850 000 MHz	
1346 4822 153 30025	6,0 MHz	
1346 4822 242 71375	6,5 MHz	
1347 4822 242 71207	4,5 MHz	
1501 4822 242 81077	4.430 000 MHz	
1542 4822 242 70304	8,867238 MHz	
1542 4822 242 70736	7,159090 MHz	
1543 4822 242 70304	8,867238 MHz	
1801 4822 242 73552	14,875 000 MHz	
1802 4822 242 71508	6,0 MHz	

2102	4822 121 51457	470pF 10% 275V
2105	4822 126 11987	6,8pF 500V
2106	4822 126 11987	6,8pF 500V
2109	4822 122 32769	2,2nF 1KV
2110	4822 122 32769	2,2nF 1KV
2111	4822 122 32769	2,2nF 1KV
2112	4822 122 32769	2,2nF 1KV
2113	5322 121 42386	100nF 5% 63V
2113	4822 121 42469	5,6nF 5% 250V
2132	4822 124 22351	0,33µF 50V
2132	4822 124 23169	330µF 20% 400V
2136	4822 122 33352	1nF 10% 1KV
2137	4822 121 42472	10nF 10% 50V
2138	5322 121 42465	68nF 5% 63V
2138	4822 121 42472	10nF 10% 50V
2139	4822 121 43047	1µF 10% 63V
2139	4822 121 41854	150nF 5% 63V
2140	4822 126 11986	270pF 5% 50V
2140	4822 126 11974	180pF 5% 50V
2143	4822 126 11973	150pF 5%
2144	4822 121 43047	1µF 10% 63V
2148	4822 121 43047	1µF 10% 63V
2149	4822 126 11979	470pF 10% 500V
2150	4822 126 11979	27pF 5% 2KV
2150	4822 126 11989	220pF 10% 2KV
2151	4822 126 11958	2,2nF 10% 500V
2152	4822 122 40594	470pF 10% 1KV
2153	4822 121 41815	10nF 10% 100V
2155	4822 122 33531	2n2 10% 50V
2156	4822 126 11981	39pF 5% 2KV
2156	4822 126 11988	5,6pF 5% 2KV
2157	4822 122 32771	1,5nF 10% 2KV
2159	4822 122 33284	470pF 20% 400V
2159	4822 122 40602	1nF 20% 400V
2160	4822 122 40602	1nF 20% 400V
2161	4822 122 33824	2,2nF 10% 1KV
2162	4822 124 22349	100µH 10% 160V
2163	4822 126 11977	120pF 5% 500V
2164	4822 121 51115	270nF 10% 63V
2165	5322 121 42465	68nF 5% 63V
2166	4822 124 22349	100µH 10% 160V
2167	4822 122 40608	22nF 20% 50V
2171	4822 124 40196	220µF 20% 16V
2172	4822 122 40608	22nF 20% 50V
2173	4822 121 51115	270nF 10% 63V
2174	4822 126 11135	1nF 10% 500V
2175	5322 124 41468	1000µF 20% 40V
2176	4822 122 33531	2n2 10% 50V
2177	4822 124 22606	68µF 20% 16V
2180	4822 124 40432	1500µF 20% 25V
2181	4822 122 33531	2n2 10% 50V
2182	4822 124 40178	100µF 20% 10V
2183	4822 124 40178	100µF 20% 10V
2185	4822 122 33531	2n2 10% 50V
2186	4822 124 40435	10µF 20% 50V
2187	4822 124 40435	10µF 20% 50V
2188	5322 121 42489	33nF 5% 250V
2190	4822 121 51099	22nF 1% 63V
2193	4822 122 33302	1nF 5% 50V
2196	4822 122 40608	22nF 20% 50V
2197	4822 121 51115	270nF 10% 63V
2198	4822 122 33531	2n2 10% 50V
2199	4822 121 51252	470nF 5% 63V
2207	4822 122 40606	22nF 20% 50V
2210	4822 122 33307	10nF 5% 50V
2211	4822 122 33303	1,5nF 5% 50V
2218	4822 121 51244	330nF 5% 50V
2219	4822 121 51244	330nF 5% 50V
2235	4822 122 33528	390pF 5% 50V
2237	4822 124 41506	47µF 20% 16V
2240	4822 122 33528	390pF 5% 50V
2245	4822 122 33528	390pF 5% 50V
2250	4822 124 40242	1µF 20% 63V
2251	4822 122 33528	390pF 5% 50V
2258	4822 122 32185	10pF 2% 100V
2259	4822 122 32185	10pF 2% 100V
2263	4822 122 33531	2n2 10% 50V
2285	4822 121 41741	220nF 10% 63V
2290	4822 122 33528	390pF 5% 50V
2292	4822 122 33528	390pF 5% 50V
2294	4822 122 33528	390pF 5% 50V
2298	4822 122 33528	390pF 5% 50V
2300	4822 121 42094	100nF 10% 63V
2304	4822 121 42094	100nF 10% 63V
2306	4822 121 42094	100nF 10% 63V
2307	4822 124 40272	33µF 20% 16V
2308	4822 121 42094	100nF 10% 63V
2312	4822 124 40195	150µF 20% 16V
2313	4822 124 42124	100µF 20% 35V
2314	4822 126 11985	27pF 5%
2315	4822 122 33307	10nF 5% 50V
2316	4822 122 33307	10nF 5% 50V
2317	4822 126 10096	15pF 5% 50V
2325	4822 122 33307	10nF 5% 50V
2326	4822 124 40242	1µF 20% 63V
2330	4822 122 33531	2n2 10% 50V
2334	4822 126 11293	1pF 0,25% 50V
2335	4822 126 11293	1pF 0,25% 50V
2340	4822 122 30057	2,7nF 10% 100V
2340	4822 122 33305	2,7nF 5% 50V
2341	4822 124 40243	1,5µF 20% 63V
2343	4822 124 40195	150µF 20% 16V
2344	4822 122 33307	10nF 5% 50V
2346	4822 122 33292	47pF 5% 50V
2503	4822 122 33291	39pF 5% 50V
2503	4822 122 33524	22pF 5% 50V
2505	4822 122 33296	180pF 5% 50V
2506	4822 126 11328	220pF 5%
2507	4822 122 33655	68pF 5% 50V
2509	4822 122 33528	390pF 5% 50V
2509	4822 126 11975	470pF 5%
2511	4822 122 33292	47pF 5% 50V
2511	4822 126 11972	100pF 5%
2513	4822 122 31237	82pF 2% 100V
2515	4822 122 33526	330pF 5% 50V
2516	4822 122 33292	47pF 5% 50V
2525	4822 122 33299	220pF 5% 50V
2526	4822 122 33299	220pF 5% 50V
2527	4822 121 42094	100nF 10% 63V
2528	4822 121 42094	100nF 10% 63V
2531	4822 122 33307	10nF 5% 50V
2532	4822 122 33307	10nF 5% 50V
2533	4822 121 43047	1µF 10% 63V
2534	4822 122 40608	22nF 20% 50V
2535	4822 122 40608	22nF 20% 50V
2538	4822 121 51244	330nF 5% 50V
2539	4822 121 51399	47nF 10% 50V
2540	4822 121 42094	100nF 10% 63V
2541	4822 124 41554	220µF 20% 10V
2542	4822 125 50534	20pF 150V
2543	4822 125 50534	20pF 150V
2546	4822 124 40435	10µF 20% 50V
2547	4822 126 10096	15pF 5% 50V
2549	4822 122 33293	100pF 5% 50V
2550	4822 121 51399	47nF 10% 50V
2551	4822 126 10096	15pF 5% 50V
2554	4822 124 40435	10µF 20% 50V
2556	4822 122 33302	1nF 5% 50V
2556	4822 122 33399	1nF 20% 63V
2557	4822 122 33302	1nF 5% 50V
2557	4822 122 33399	1nF 20% 63V
2558	4822 122 40606	22nF 20% 50V
2559	4822 122 40606	22nF 20% 50V

Spare parts list

1060 Carrier Panel

2561	4822 122 40606	22nF 20% 50V
2562	4822 122 33289	33pF 5% 50V
2563	4822 122 33289	33pF 5% 50V
2564	4822 122 33289	33pF 5% 50V
2564	4822 122 33292	47pF 5% 50V
2565	4822 122 33289	33pF 5% 50V
2565	4822 122 33292	47pF 5% 50V
2566	4822 122 40606	22nF 20% 50V
2568	4822 121 42094	100nF 10% 63V
2570	4822 128 11976	270pF 5% 50V
2572	4822 124 40849	330µF 20% 16V
2573	4822 124 40272	33µF 20% 16V
2574	4822 124 22633	22µF 20% 35V
2582	4822 122 40606	22nF 20% 50V
2583	4822 122 40606	22nF 20% 50V
2584	4822 122 40606	22nF 20% 50V
2585	4822 124 41456	10µF 20% 63V
2586	4822 124 41456	10µF 20% 63V
2587	4822 124 40435	10µF 20% 50V
2588	4822 122 40606	22nF 20% 50V
2589	4822 122 40606	22nF 20% 50V
2590	4822 122 40606	22nF 20% 50V
2594	4822 122 33292	47pF 5% 50V
2595	4822 122 33292	47pF 5% 50V
2595	4822 122 33293	100pF 5% 50V
2596	4822 122 33292	47pF 5% 50V
2596	4822 122 33293	100pF 5% 50V
2613	4822 124 41376	4,7µF 20% 50V
2614	4822 122 33352	1nF 10% 1KV
2705	4822 124 40196	220µF 20% 16V
2722	4822 124 22633	22µF 20% 35V
2724	4822 124 40242	1µF 20% 63V
2727	4822 122 33299	220pF 5% 50V
2728	4822 121 42094	100nF 10% 63V
2730	4822 122 33304	1,8nF 5% 50V
2730	4822 122 33529	1,2nF 10% 50V
2735	4822 121 42094	100nF 10% 63V
2736	4822 122 33527	100pF 10% 50V
2740	4822 121 51244	330nF 5% 50V
2741	4822 121 51244	330nF 5% 50V
2748	4822 121 42937	2,7µF 1% 250V
2750	4822 121 42094	100nF 10% 63V
2751	4822 124 22633	22µF 20% 35V
2756	4822 122 33307	10nF 5% 50V
2757	4822 124 41525	100µF 20% 25V
2758	4822 126 10334	470pF 10% 50V
2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 5% 50V
2795	4822 122 31769	18pF 5% 50V
2796	4822 122 31769	18pF 5% 50V
2797	4822 122 31769	18pF 5% 50V
2800	4822 124 40178	100µF 20% 10V
2801	4822 122 32442	10nF 50V
2801	4822 121 41689	100nF 10% 250V
2802	4822 124 41678	22µF 20% 25V
2802	4822 122 31972	39pF 5% 50V
2802	4822 124 41578	6,8µF 20% 50V
2803	4822 122 31972	39pF 5% 50V
2804	4822 122 31766	120pF 5% 50V
2805	4822 122 31766	120pF 5% 50V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 5% 50V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 10% 50V
2816	4822 122 33293	100pF 5% 50V
2816	4822 126 11984	3,3pF 0,25%
2817	4822 122 32504	15pF 5% 50V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 5% 63V
2820	4822 122 31797	22nF 10% 63V
2820	4822 122 33307	10nF 5% 50V
2821	4822 122 32142	270pF 5% 63V
2822	4822 122 31765	100pF 5% 50V
2823	4822 122 31965	220pF 5% 63V
2824	4822 122 32891	68nF 10% 63V
2825	4822 124 41525	100µF 20% 25V
2826	4822 122 32504	15pF 5% 50V
2827	4822 122 32542	47nF 10% 63V
2828	4822 122 32542	47nF 10% 63V
2829	4822 124 41506	47µF 20% 16V
2830	4822 122 32542	47nF 10% 63V
2833	4822 124 41578	2,2µF 20% 50V
2834	4822 124 41886	1µF 20% 35V
2834	4822 124 42335	200µF 20% 50V
2836	4822 124 42335	200µF 20% 50V
2836	4822 124 41886	1µF 20% 35V
2838	4822 124 22606	68µF 20% 16V
2838	4822 124 40433	47µF 20% 25V
2845	4822 124 40178	100µF 20% 10V
2846	4822 124 41554	220µF 20% 10V
2849	4822 124 21212	15µF 20% 40V
2902	4822 124 40242	1µF 20% 63V
2910	4822 126 11958	2,2nF 10% 500V
2910	4822 126 11959	3,9nF 10% 500V
2911	4822 121 40518	100nF 10% 250V
2914	4822 121 41689	100nF 10% 250V
2922	4822 126 11957	1,2nF 10% 500V
2925	4822 122 31695	1nF 10% 2KV
2925	4822 122 50078	560pF 10% 2KV
2926	4822 122 32569	220pF 10% 2KV
2927	4822 122 33382	9,1nF 5% 2KV
2928	4822 124 40756	1µF 20% 100V
2930	4822 121 42376	470nF 5% 250V
2930	4822 121 43888	360nF 5% 250V
2931	4822 121 42917	470nF 5% 200V
2932	4822 121 40488	22nF 10% 400V
2932	4822 121 43137	39nF 10% 250V
2935	4822 124 40769	4,7µF 20% 100V
2936	4822 124 41376	4,7µF 20% 50V
2937	4822 124 40435	10µF 20% 50V
2941	4822 124 40242	1µF 20% 63V
2943	4822 121 42007	100nF 10% 100V
2943	4822 121 42094	100nF 10% 63V
2946	4822 121 42081	8,2nF 10% 400V
2946	4822 121 43343	4,7nF 10% 400V
2950	4822 124 40744	68µF 20% 40V
2951	4822 121 41911	270nF 10% 63V
2954	4822 122 33524	22pF 5% 50V
2963	5322 121 42489	33nF 5% 250V
2963	4822 121 51362	15nF 5% 100V
2965	4822 121 42935	47nF 5% 100V
2970	4822 126 11958	2,2nF 10% 500V
2971	4822 124 40764	22µF 20% 100V
2971	4822 124 41596	22µF 20% 50V
2972	4822 124 40435	10µF 20% 50V
2975	4822 126 11958	2,2nF 10% 500V
2976	4822 124 40201	1000µF 20% 16V
2980	4822 126 11958	2,2nF 10% 500V
2981	4822 124 42343	1000µF 20% 50V
2984	4822 124 22606	68µF 20% 16V
2992	4822 121 51252	470nF 5% 63V
3011	4822 116 52276	3k9 5% 0,5W
3101	4822 218 21033	VDR
3107	4822 116 40206	PTC 100 + 30Ω
3108	4822 116 40206	PTC 100 + 30Ω
3109	4822 053 10683	68k 5% 1W
3110	4822 116 52249	1k8 5% 0,5W
3111	4822 053 10683	68k 5% 1W
3113	4822 116 40222	PTC 27Ω
3120	4822 116 52276	3k9 5% 0,5W
3130	4822 053 11224	220k 5% 2W
3135	5322 113 41021	0,1Ω 10% 3,5W
3136	4822 053 11154	150k 5% 2W
3137	4822 116 52296	6k8 5% 0,5W
3138	4822 116 52175	100Ω 5% 0,5W
3138	4822 116 52296	6k8 5% 0,5W
3139	4822 116 52175	100Ω 5% 0,5W
3139	4822 116 52222	390Ω 5% 0,5W
3140	4822 116 52286	5k1 5% 0,5W
3141	4822 116 52284	47k 5% 0,5W
3142	4822 050 22704	270k 1% 0,6W
3144	4822 116 52284	47k 5% 0,5W
3146	4822 116 52224	470Ω 5% 0,5W
3147	4822 116 52175	100Ω 5% 0,5W
3148	4822 116 52215	220Ω 5% 0,5W
3150	4822 116 52186	22Ω 5% 0,5W
3152	4822 116 52267	30k 5% 0,5W
3153	4822 116 52175	100Ω 5% 0,5W
3154	4822 113 80579	120Ω 10% 7W
3155	4822 116 52199	68Ω 5% 0,5W
3156	4822 053 11102	1k 5% 2W
3157	4822 111 91881	27Ω 5% 5W
3158	4822 116 52175	100Ω 5% 0,5W
3159	4822 053 21475	4,7M 5% 0,5W
3160	4822 053 11122	1,2k 5% 2W
3161	4822 116 52175	100Ω 5% 0,5W
3162	4822 116 52182	15Ω 5% 0,5W
3163	4822 053 10473	47k 5% 1W
3164	4822 116 52276	3k9 5% 0,5W
3165	4822 050 24701	470Ω 1% 0,6W
3166	4822 053 10108	1Ω 5% 1W
3167	4822 053 10108	1Ω 5% 1W
3168	4822 050 21024	102k 1% 0,6W
3168	4822 050 21624	162k 1% 0,6W
3169	4822 050 11002	1k 1% 0,4W
3170	4822 050 17502	7,5k 1% 0,4W
3171	4822 116 52233	10k 5% 0,5W
3172	4822 100 11348	1k 30%LIN
3173	4822 116 52226	560Ω 5% 0,5W
3174	4822 052 10108	1Ω 5% 0,33W
3175	4822 116 52239	120k 5% 0,5W
3175	4822 116 52304	82k 5% 0,5W
3176	4822 116 52211	150Ω 5% 0,5W
3177	4822 050 24992	4,99k 1% 0,6W
3177	4822 050 25492	5,49k 1% 0,6W
3178	4822 050 21184	118k 1% 0,6W
3178	4822 050 26803	68k 1% 0,6W
3179	4822 116 52239	120k 5% 0,5W
3179	4822 116 52304	82k 5% 0,5W
3180	4822 052 10108	1Ω 5% 0,33W
3181	4822 050 11002	1k 1% 0,4W
3182	4822 053 10221	220Ω 5% 1W
3183	4822 116 52215	220Ω 5% 0,5W
3184	4822 116 52175	100Ω 5% 0,5W
3185	4822 116 52233	10k 5% 0,5W
3186	4822 116 52183	16Ω 5% 0,5W
3187	4822 116 52216	240Ω 5% 0,5W
3188	4822 116 52243	1,5k 5% 0,5W
3188	4822 116 52263	2,7k 5% 0,5W
3189	4822 050 22702	2,7k 1% 0,6W
3190	4822 116 52182	15Ω 5% 0,5W
3191	4822 116 52207	1k 2 5% 0,5W
3192	4822 116 52211	150Ω 5% 0,5W
3193	4822 050 11002	1k 1% 0,4W
3194	4822 116 52226	560Ω 5% 0,5W
3195	4822 116 52226	560Ω 5% 0,5W

Spare parts list

1060 Carrier Panel

3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10122	1k2 2% 0,25W
3820	4822 116 52224	470Ω 5% 0,5W
3821	4822 116 52175	100Ω 5% 0,5W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10332	3k3 2% 0,25W
3825	4822 051 10332	3k3 2% 0,25W
3826	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10829	82Ω 2% 0,25W
3830	4822 050 11002	1k 1% 0,4W
3830	4822 116 52217	270Ω 5% 0,5W
3831	4822 050 21502	1k5 1% 0,6W
3831	4822 050 21503	15k 1% 0,6W
3832	4822 051 10333	33k 2% 0,25W
3832	4822 116 52256	2k2 5% 0,5W
3833	4822 052 11138	1Ω3 5% 0,5W
3833	4822 052 11249	240 5% 0,5W
3834	4822 116 52273	3k6 5% 0,5W
3834	4822 050 21503	15k 1% 0,6W
3835	4822 116 52223	430Ω 5% 0,5W
3835	4822 116 52226	560Ω 5% 0,5W
3838	4822 116 52185	200 5% 0,5W
3838	4822 116 52189	300 5% 0,5W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3840	4822 116 80691	1,5Ω 5% 0,2W
3840	4822 116 81154	2Ω 2 5% 0,5W
3841	4822 116 81154	2Ω 2 5% 0,5W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3842	4822 116 52241	13k 5% 0,5W
3843	4822 116 52303	8k2 5% 0,5W
3843	4822 051 10122	1k2 2% 0,25W
3845	4822 052 10689	68Ω 5% 0,33W
3846	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3860	4822 050 11002	1k 1% 0,4W
3902	4822 116 52234	100k 5% 0,5W
3903	4822 116 52233	10k 5% 0,5W
3904	4822 116 52276	3k 9 5% 0,5W
3906	4822 053 21224	220k 5% 0,5W
3907	4822 053 21104	100k 5% 0,5W
3908	4822 116 52233	10k 5% 0,5W
3908	4822 116 52299	7k5 5% 0,5W
3909	4822 052 11201	200Ω 5% 0,5W
3909	4822 052 11471	470Ω 5% 0,5W
3910	4822 052 11201	200Ω 5% 0,5W
3911	4822 053 11682	6,8k 5% 2W
3912	4822 116 83546	6k8 10% 3W
3916	4822 116 52191	330 5% 0,5W
3920	4822 116 52195	47Ω 5% 0,5W
3922	4822 053 10103	10k 5% 1W
3928	4822 116 52264	27k 5% 0,5W
3930	4822 052 11102	1k 5% 0,5W
3930	4822 052 11471	470Ω 5% 0,5W
3935	4822 050 11002	1k 1% 0,4W
3937	4822 052 10188	1,8Ω 5% 0,33W
3937	4822 052 10398	3,9Ω 5% 0,33W
3939	4822 050 11002	1k 1% 0,4W
3940	4822 116 52263	2k7 5% 0,5W
3940	4822 116 52296	6,8k 5% 0,5W
3941	4822 116 52284	47k 5% 0,5W
3945	4822 116 52284	47k 5% 0,5W
3946	4822 116 52234	100k 5% 0,5W
3947	4822 116 52235	1M 5% 0,5W
3950	4822 116 52176	10Ω 5% 0,5W
3951	4822 116 52283	4k7 5% 0,5W
3954	4822 050 11002	1k 1% 0,4W
3954	4822 116 80176	1Ω 5% 0,5W
3955	4822 116 52297	68k 5% 0,5W
3955	4822 116 80176	1Ω 5% 0,5W
3956	4822 100 11213	22k 30%
3961	4822 116 52257	22k 5% 0,5W
3962	4822 116 52297	68k 5% 0,5W
3963	4822 116 52284	47k 5% 0,5W
3965	4822 116 52233	10k 5% 0,5W
3966	4822 116 52228	680Ω 5% 0,5W
3969	4822 111 50503	1k 10% 0,25W
3970	4822 052 11109	10Ω 5% 0,5W
3972	4822 052 11109	10Ω 5% 0,5W
3975	4822 052 11128	1,2Ω 5% 0,5W
3975	4822 052 11568	5Ω6 5% 0,5W
3976	4822 052 11568	5,6Ω 5% 0,5W
3976	4822 052 11568	5,6Ω 5% 0,5W
3977	4822 116 52175	100Ω 5% 0,5W
3980	4822 050 21009	10Ω 1% 0,6W
3981	4822 050 21009	10Ω 1% 0,6W
3982	4822 050 21009	10Ω 1% 0,6W
3983	4822 050 21009	10Ω 1% 0,6W
3984	4822 050 11002	1k 1% 0,4W
3990	4822 111 50464	4,7M 5% 0,33W
3991	4822 116 52222	390Ω 5% 0,5W
3991	4822 116 52235	1M 5% 0,5W
3992	4822 116 52235	1M 5% 0,5W
3999	4822 051 10182	1,8k 2% 0,25W

4xxx jumper

5105	4822 212 23611	MAINS FILTER
5105	4822 158 30224	TRANSFORMER
5138	4822 158 10551	27µH
5150	4822 157 51216	5,6µH
5155	4822 157 51757	2µH
5157	4822 157 63684	COIL ASSY
5161	4822 148 81216	TRANSFORMER
5161	4822 148 81221	TRANSFORMER
5162	4822 157 52661	FERR BEAD
5168	4822 157 52505	33µH 10%
5174	4822 156 20966	47µH 10%
5175	4822 157 52661	FERR BEAD
5182	4822 156 20966	47µH 10%
5206	4822 157 53634	5,6µH 10%
5207	4822 157 53634	5,6µH 10%
5258	4822 157 53949	39µH 5%
5316	4822 157 63688	34,4 MHz
5317	4822 157 60339	0,82µH
5331	4822 157 52223	1µH
5335	4822 157 63687	39 MHz
5335	4822 157 63703	COIL
5336	4822 157 63686	38,9 MHz
5344	4822 157 62235	6,8µH
5345	4822 157 51999	10µH 10%
5345	4822 157 52278	12µH 10%
5505	4822 157 53001	27µH 10%
5508	4822 157 53066	15µF 10%
5509	4822 157 63699	9µH 6%
5549	4822 157 63701	7,6µH 6%
5561	4822 157 63685	19µH 6%
5566	4822 157 63685	19µH 6%
5567	4822 157 51056	DL 330ns
5594	4822 157 53634	5,6µH 10%
5595	4822 157 53634	5,6µH 10%
5598	4822 157 53634	5,6µH 10%
5800	4822 156 20966	DL 330ns
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60µH
5814	4822 157 53608	10µH
5816	4822 157 52224	15µH
5847	4822 157 51157	3,3µH
5901	4822 140 10431	LINE TRAFO
5902	4822 140 10429	LINE TRAFO
5911	4822 157 52505	33µH 10%
5916	4822 157 60171	FERR BEAD
5918	4822 146 10111	LINE DRIVER
5930	4822 157 52688	LIN CORR.
5930	4822 157 63702	COIL
5931	4822 157 52315	COIL
5932	4822 158 10728	TRANSFORMER
5936	4822 156 21293	1500µH
5977	5322 157 52539	15µH 7,5%
5980	4822 157 62827	LIN CORR.

6109	4822 130 82745	BYM56D
6110	4822 130 82745	BYM56D
6111	4822 130 82745	BYM56D
6112	4822 130 82745	BYM56D
6113	4822 130 20269	S0402NH
6136	4822 130 81497	1N4005GP
6137	4822 130 42606	BYD33J
6138	4822 130 20268	BT152-600R
6138	4822 130 34685	BZX79-C75
6139	4822 130 34233	BZX79-C5V1
6139	4822 130 34173	BZX79-C5V6
6140	4822 130 30621	1N4148
6141	4822 130 30621	1N4148
6143	4822 130 30621	1N4148
6149	4822 130 82868	BZX85-C3V0
6150	4822 130 42488	BYD33D
6151	4822 130 82867	BZX85-C2V7
6154	4822 130 42488	BYD33D
6155	4822 130 42488	BYD33D
6156	4822 130 82035	BYD74D
6157	5322 130 34459	1N5059
6158	5322 130 34459	1N5059
6161	4822 130 32119	BY229-600
6162	4822 130 34173	BZX79-C5V6
6163	4822 130 20215	SFOR5J43
6164	4822 130 30621	1N4148
6173	4822 130 34167	BZX79-F6V2
6174	4822 130 82035	BYD74D
6175	4822 130 34167	BZX79-F6V2
6176	4822 130 42488	BYD33D
6180	4822 130 42488	BYD33D
6181	4822 130 42488	BYD33D
6182	4822 130 34197	BZX79-C12
6183	4822 130 30621	1N4148
6184	4822 130 34233	BZX79-F5V1
6185	4822 130 34174	BZX79-C4V7
6186	4822 130 42488	BYD33D
6188	4822 130 42488	BYD33D
6189	4822 130 34195	BZX79-C13
6189	4822 130 34281	BZX79-C15
6190	4822 130 30621	1N4148
6192	4822 130 30621	1N4148
6196	4822 130 30621	1N4148
6197	4822 130 34379	BZX79-C27
6198	4822 130 34281	BZX79-C15
6199	4822 130 34379	BZX79-C27
6201	4822 130 30621	1N4148
6202	4822 130 30621	1N4148
6211	4822 130 82037	HZT33
6257	4822 130 81482	LN81RPH
6264	4822 130 30621	1N4148

060 Carrier Panel

3196	4822 116 52175	100Ω 5% 0,5W
3197	4822 050 11002	1k 1% 0,4W
3198	4822 050 23902	3k9 1% 0,6W
3199	4822 116 52259	2,4k 5% 0,5W
3199	4822 116 52288	510k 5% 0,5W
3200	4822 050 11002	1k 1% 0,4W
3205	4822 050 11002	1k 1% 0,4W
3206	4822 050 11002	1k 1% 0,4W
3207	4822 116 52289	5,6k 5% 0,5W
3208	4822 116 52276	3,9k 5% 0,5W
3209	4822 116 52251	18k 5% 0,5W
3210	4822 053 10223	22k 5% 1W
3210	4822 050 21203	12k 1% 0,6W
3211	4822 116 52233	10k 5% 0,5W
3213	4822 116 52257	22k 5% 0,5W
3214	4822 116 52258	220k 5% 0,5W
3216	4822 116 52175	100Ω 5% 0,5W
3217	4822 116 52261	24k 5% 0,5W
3218	4822 116 52244	15k 5% 0,5W
3219	4822 116 52233	10k 5% 0,5W
3220	4822 116 52233	10k 5% 0,5W
3221	4822 116 52251	18k 5% 0,5W
3222	4822 116 52257	22k 5% 0,5W
3223	4822 116 52233	10k 5% 0,5W
3224	4822 116 52284	47k 5% 0,5W
3225	4822 050 11002	1k 1% 0,4W
3226	4822 050 11002	1k 1% 0,4W
3227	4822 116 81682	2M2 5% 0,5W
3228	4822 116 52234	100k 5% 0,5W
3229	4822 116 52305	820k 5% 0,5W
3230	4822 116 52292	560k 5% 0,5W
3235	4822 116 52233	10k 5% 0,5W
3236	4822 050 11002	1k 1% 0,4W
3237	4822 050 11002	1k 1% 0,4W
3240	4822 116 52257	22k 5% 0,5W
3241	4822 116 52251	18k 5% 0,5W
3242	4822 116 52238	12k 5% 0,5W
3245	4822 116 52296	6k8 5% 0,5W
3246	4822 116 52289	5k6 5% 0,5W
3247	4822 116 52293	6k2 5% 0,5W
3250	4822 116 52283	4k7 5% 0,5W
3251	4822 116 52289	5k6 5% 0,5W
3252	4822 116 52244	15k 5% 0,5W
3253	4822 116 52301	75k 5% 0,5W
3254	4822 116 52276	3k9 5% 0,5W
3255	4822 116 52269	3k3 5% 0,5W
3258	4822 116 52222	390Ω 5% 0,5W
3259	4822 116 52283	4k7 5% 0,5W
3260	4822 116 52233	10k 5% 0,5W
3261	4822 116 52233	10k 5% 0,5W
3262	4822 116 52256	2k2 5% 0,5W
3263	4822 116 52238	12k 5% 0,5W
3264	4822 116 52238	12k 5% 0,5W
3265	4822 116 52284	47k 5% 0,5W
3267	4822 116 52257	22k 5% 0,5W
3268	4822 116 52289	5k6 5% 0,5W
3269	4822 116 52283	4k7 5% 0,5W
3273	4822 116 52226	560Ω 5% 0,5W
3274	4822 116 52249	1k8 5% 0,5W
3275	4822 116 52293	7k5 5% 0,5W
3278	4822 116 52269	3k3 5% 0,5W
3279	4822 116 52269	3k3 5% 0,5W
3290	4822 116 52243	1k5 5% 0,5W
3291	4822 116 52228	680Ω 5% 0,5W
3292	4822 116 52243	1k5 5% 0,5W
3294	4822 116 52243	1k5 5% 0,5W
3297	4822 116 52289	5k6 5% 0,5W
3300	4822 116 52243	1k5 5% 0,5W
3307	4822 116 52263	2k7 5% 0,5W
3308	4822 116 52233	10k 5% 0,5W
3312	4822 052 10339	33Ω 5% 0,33W
3314	4822 116 52257	22k 5% 0,5W
3316	4822 116 52283	4k7 5% 0,5W
3317	4822 116 52257	22k 5% 0,5W
3318	4822 116 52256	2k2 5% 0,5W
3325	4822 100 20166	10k LIN 0,1W
3326	4822 116 52277	39k 5% 0,5W
3330	4822 052 10439	43Ω 5% 0,33W
3331	4822 052 10439	43Ω 5% 0,33W
3341	4822 116 52207	1k2 5% 0,5W
3344	4822 116 52225	510Ω 5% 0,5W
3345	4822 116 52249	1k8 5% 0,5W
3346	4822 116 52233	10k 5% 0,5W
3347	4822 116 52206	120Ω 5% 0,5W
3348	4822 116 52233	10k 5% 0,5W
3349	4822 116 52216	240Ω 5% 0,5W
3350	4822 116 52213	180Ω 5% 0,5W
3351	4822 116 52215	220Ω 5% 0,5W
3353	4822 116 52175	100Ω 5% 0,5W
3360	4822 116 52264	27k 5% 0,5W
3361	4822 116 52245	150k 5% 0,5W
3361	4822 116 52234	100k 5% 0,5W
3361	4822 116 52269	3,3k 5% 0,5W
3361	4822 116 52234	100k 5% 0,5W
3361	4822 116 52303	8,2k 5% 0,5W
3501	4822 116 52243	1,5k 5% 0,5W
3503	4822 116 52234	100k 5% 0,5W
3503	4822 116 52284	47k 5% 0,5W
3505	4822 116 52224	470Ω 5% 0,5W
3506	4822 116 52226	560Ω 5% 0,5W
3507	4822 116 52225	510Ω 5% 0,5W
3507	4822 116 52251	18k 5% 0,5W
3507	4822 116 52303	8,2k 5% 0,5W
3513	4822 116 52257	22k 5% 0,5W
3514	4822 116 52233	10k 5% 0,5W
3522	4822 116 52283	4,7k 5% 0,5W
3524	4822 116 52283	4,7k 5% 0,5W
3525	4822 050 11002	1k 1% 0,4W
3526	4822 116 52233	10k 5% 0,5W
3527	4822 116 52233	10k 5% 0,5W
3528	4822 116 52251	18k 5% 0,5W
3532	4822 116 52283	4,7k 5% 0,5W
3533	4822 116 52254	20k 5% 0,5W
3538	4822 116 52233	10k 5% 0,5W
3539	4822 116 52286	5k1 5% 0,5W
3539	4822 116 52269	3k3 5% 0,5W
3541	4822 116 52296	6k8 5% 0,5W
3542	4822 116 52283	4k7 5% 0,5W
3548	4822 050 22705	2M7 1% 0,6W
3548	4822 111 50464	4M7 5% 0,33W
3549	4822 100 11348	1k LIN 30%
3550	4822 116 52283	4k7 5% 0,5W
3554	4822 116 52226	560Ω 5% 0,5W
3556	4822 116 52233	10k 5% 0,5W
3557	4822 116 52233	10k 5% 0,5W
3558	4822 116 52235	1M 5% 0,5W
3560	4822 116 52199	68Ω 5% 0,5W
3560	4822 116 52176	10Ω 5% 0,5W
3561	4822 116 52176	10Ω 5% 0,5W
3561	4822 116 52199	68Ω 5% 0,5W
3562	4822 050 11002	1k 1% 0,4W
3563	4822 116 52251	18k 5% 0,5W
3565	4822 116 52251	18k 5% 0,5W
3566	4822 116 52251	18k 5% 0,5W
3567	4822 116 52228	560Ω 5% 0,5W
3568	4822 116 52228	680Ω 5% 0,5W
3569	4822 116 52222	390Ω 5% 0,5W
3570	4822 116 52222	390Ω 5% 0,5W
3571	4822 050 11002	1k 1% 0,4W
3572	4822 116 52217	270Ω 5% 0,5W
3573	4822 052 10109	10Ω 5% 0,33W
3574	4822 052 10828	8,2Ω 5% 0,33W
3587	4822 116 52195	47Ω 5% 0,5W
3588	4822 116 52221	360Ω 5% 0,5W
3588	4822 116 52222	390Ω 5% 0,5W
3589	4822 116 52221	360Ω 5% 0,5W
3589	4822 116 52222	390Ω 5% 0,5W
3590	4822 116 52221	360Ω 5% 0,5W
3591	4822 116 52296	6k8 5% 0,5W
3594	4822 116 52175	100Ω 5% 0,5W
3595	4822 116 52175	100Ω 5% 0,5W
3596	4822 116 52175	100Ω 5% 0,5W
3614	4822 050 21005	1M 1% 0,6W
3615	4822 050 11001	100Ω 1% 0,4W
3702	4822 116 52283	4k7 5% 0,5W
3705	4822 052 11478	4Ω7 5% 0,5W
3707	4822 116 52244	15k 5% 0,5W
3710	4822 116 52283	4k7 5% 0,5W
3713	4822 116 52289	5k6 5% 0,5W
3715	4822 116 52267	30k 5% 0,5W
3722	4822 116 52186	22Ω 5% 0,5W
3723	4822 116 52289	5k6 5% 0,5W
3727	4822 116 52249	1k8 5% 0,5W
3735	4822 116 52292	560k 5% 0,5W
3736	4822 116 52234	100k 5% 0,5W
3737	4822 100 20166	10k LIN 0,1W
3738	4822 116 52301	75k 5% 0,5W
3739	4822 101 21154	200k 25%
3740	4822 116 52258	220k 5% 0,5W
3741	4822 116 52301	75k 5% 0,5W
3748	4822 116 52267	30k 5% 0,5W
3749	4822 100 20166	10k LIN 0,1W
3750	4822 050 11002	1k 1% 0,4W
3754	4822 116 52213	180Ω 5% 0,5W
3755	4822 116 52276	3k9 5% 0,5W
3757	4822 116 52283	4k7 5% 0,5W
3795	4822 051 10392	3k9 2% 0,25W
3796	4822 116 90536	120Ω 1% 0,125W
3797	4822 116 52176	10Ω 5% 0,5W
3798	4822 116 90536	120Ω 1% 0,125W
3800	4822 051 10103	10k 2% 0,25W
3800	4822 050 26801	680Ω 1% 0,6W
3801	4822 050 26801	680Ω 1% 0,6W
3801	4822 051 10105	1M 5% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3803	4822 116 52182	15Ω 5% 0,5W
3803	4822 050 21308	1Ω3 1% 0,6W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1,2k 2% 0,25W
3805	4822 053 10242	2,4k 5% 1W
3807	4822 053 10242	2,4k 5% 1W
3807	4822 051 10622	6,2k 2% 0,25W
3808	4822 051 10103	10k 2% 0,25W
3809	4822 051 10132	1k3 2% 0,25W
3810	4822 051 10333	33k 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W
3812	4822 051 10332	3k3 2% 0,25W
3812	4822 116 52182	15Ω 5% 0,5W
3813	4822 051 10361	360Ω 2% 0,25W
3814	4822 050 11002	1k 1% 0,4W
3815	4822 051 10152	1k5 2% 0,25W
3815	4822 053 11161	160Ω 5% 2W
3815	4822 053 11189	18Ω 5% 2W
3816	4822 116 52256	2k2 5% 0,5W
3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3817	4822 116 52266	3k 5% 0,5W
3818	4822 116 52175	100Ω 5% 0,5W

1060 Carrier Panel

6272	4822 130 30862	BZX79-B9V1
6273	4822 130 30621	1N4148
6274	4822 130 30621	1N4148
6275	4822 130 30621	1N4148
6290	4822 130 30621	1N4148
6292	4822 130 30621	1N4148
6294	4822 130 30621	1N4148
6296	4822 130 30621	1N4148
6297	4822 130 30621	1N4148
6315	4822 130 30621	1N4148
6316	5322 130 34955	BA482
6501	4822 130 30621	1N4148
6522	4822 130 30621	1N4148
6523	4822 130 30621	1N4148
6524	4822 130 30621	1N4148
6531	4822 130 30621	1N4148
6532	4822 130 30621	1N4148
6542	4822 130 61219	BZX79-B10
6554	4822 130 34173	BZX79-C5V6
6705	4822 130 30621	1N4148
6710	4822 130 30621	1N4148
6757	4822 130 31253	BZX79-C2V4
6803	4822 130 42606	BYD33J
6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6811	4822 130 42606	BYD33J
6812	4822 130 80446	LL4148
6813	4822 130 81512	LLZ-C6V2
6814	4822 130 80446	LL4148
6818	4822 130 30843	BA315
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1
6861	4822 130 30621	1N4148
6862	4822 130 30621	1N4148
6902	5322 130 34563	BZX79-C2V7
6926	4822 130 41275	BY228
6927	4822 130 42606	BYD33J
6928	4822 130 42606	BYD33J
6932	4822 130 32058	BYW95B
6960	4822 130 20202	BT149D
6965	4822 130 30621	1N4148
6970	4822 130 42606	BYD33J
6971	4822 130 42606	BYD33J
6972	4822 130 42606	BYD33J
6975	4822 130 42606	BYD33J
6980	4822 130 42606	BYD33J
6983	4822 130 42606	BYD33J
6984	4822 130 20202	BT149D

7110	4822 130 40938	BC548
7137	4822 130 41646	BF423
7138	4822 130 41782	BF422
7140	4822 130 44196	BC548C
7143	4822 130 82034	CNX83A
7146	5322 130 60068	BC558C
7147	5322 130 44647	BC368
7156	4822 130 42679	BUT11AF
7156	4822 130 62735	BUT12AF
7164	4822 130 40938	BC548
7165	4822 130 40938	BC548
7173	4822 130 44196	BC548C
7175	4822 130 41646	BF423
7182	5322 130 44647	BC368
7183	4822 130 40941	BC558
7184	4822 130 40941	BC558
7188	5322 130 60068	BC558C
7193	4822 130 44503	BC547C
7196	4822 130 40938	BC548
7197	4822 130 40941	BC558
7198	4822 130 40855	BC337
7200	4822 310 31965	TMP47C634
7211	4822 130 40938	BC548
7214	4822 130 41594	PH2369
7225	4822 130 40938	BC548
7235	4822 130 40941	BC558
7260	4822 130 40938	BC548
7264	4822 130 40938	BC548
7268	4822 130 40938	BC548
7272	4822 130 40941	BC558
7278	4822 209 62098	ST24C02CP
7300	4822 209 10892	LA7910
7325	4822 209 72746	TDA8341/N6
7345	4822 130 40941	BC558
7346	4822 130 40941	BC558
7348	4822 130 40941	BC558
7350	4822 130 40938	BC548
7501	4822 130 40941	BC558
7502	4822 130 40938	BC548
7505	4822 130 40938	BC548
7506	4822 130 40938	BC548
7515	4822 130 40938	BC548
7525	4822 130 40938	BC548
7530	4822 209 30011	TDA4650/V3
7531	4822 209 30389	TDA4510/V6
7541	4822 130 40938	BC548
7542	4822 130 40938	BC548
7555	4822 209 30172	TDA4660/V1
7555	4822 209 63108	TDA4660/V2
7560	4822 130 40938	BC548
7561	4822 130 44196	BC548C
7562	4822 130 44196	BC548C
7566	4822 130 40938	BC548
7566	4822 130 44196	BC548C
7572	4822 130 40938	BC548
7581	4822 209 63104	TDA3504/V1
7701	4822 209 63297	TDA2579B/N1
7713	4822 130 40941	BC558
7757	4822 130 40941	BC558
7800	4822 209 62479	MAB8461P/W196
7801	4822 130 61207	BC848
7801	4822 130 43526	BD941F
7801	4822 130 60775	2SD1266P
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7810	4822 209 72681	MSM5165AL-12rs
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 73879	SAA5243P/E/M2
7820	4822 130 40938	BC548
7821	4822 130 43526	BD941F
7821	4822 130 60775	2SD1266P
7830	4822 209 63645	SAA5231/V6
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858
7903	4822 130 40941	BC558
7920	4822 130 42607	BF483
7921	4822 130 42159	BF819
7925	4822 130 42679	BUT11AF
7926	4822 130 43921	2SD1577PV
7936	4822 130 44283	BC636
7937	4822 130 60111	2SA1359
7954	4822 130 44257	BC547
7966	4822 130 40941	BC558

1070 Vivo/Sound Module

S1	4822 265 20464	2p male (->M21)
S1	4822 265 20438	2p fem (->M21)
S3	4822 264 40207	3p male (->M63)
S3	4822 267 40582	3p fem (->M63)
S4	4822 264 40207	3p male (->M13)
S4	4822 267 40582	3p fem (->M13)
V30	4822 267 50861	8p male (->M30)
V30	4822 265 40253	8p fem (->M30)
V31	4822 264 40207	3p male (->M31)
V31	4822 267 40582	3p fem (->M31)
V64	4822 265 20464	2p male (->M23)
V64	4822 265 20438	2p fem (->M23)
	4822 267 20387	2p cinch + svhs
	4822 267 40622	4P cinch

Various

1110	4822 242 72547	5,5 MHz
1111	4822 242 71725	4,5 MHz
1112	4822 242 71713	6,0 MHz
1113	4822 242 72057	6,5 MHz
1220	4822 210 10461	FM TUNER TE01

2003	4822 124 40195	150µF 20% 16V
2005	4822 121 51244	330nF 5% 50V
2006	4822 121 51244	330nF 5% 50V
2008	4822 121 51244	330nF 5% 50V
2009	4822 121 51244	330nF 5% 50V
2010	4822 121 42094	100nF 10% 63V
2011	4822 124 41596	22µF 20% 50V
2012	4822 124 41596	22µF 20% 50V
2013	4822 121 51244	330nF 5% 50V
2014	4822 121 51244	330nF 5% 50V
2016	4822 121 42008	470nF 10% 63V
2017	4822 121 42008	470nF 10% 63V
2018	4822 121 42008	470nF 10% 63V
2031	4822 121 42094	100nF 10% 63V
2032	4822 121 43104	33nF 10% 100V
2036	4822 121 42008	470nF 10% 63V
2054	4822 121 42008	470nF 10% 63V
2068	4822 121 40606	22nF 20% 50V
2083	4822 121 40606	22nF 20% 50V
2090	4822 126 11328	220pF 5%
2091	4822 122 33293	100pF 5%
2101	4822 122 33307	10nF 80% 50V
2102	4822 126 11131	18pF 5% 50V
2103	4822 122 33295	150pF 5% 50V
2118	4822 121 40606	22nF 20% 50V
2118	4822 122 30103	22nF 80% 63V
2119	4822 122 33449	47nF 30% 50V
2120	4822 121 40606	22nF 20% 50V
2120	4822 122 30103	22nF 80% 63V
2125	4822 122 33307	10nF 20% 50V
2126	4822 122 33307	10nF 80% 50V
2130	4822 124 40242	1µF 20% 63V
2136	4822 124 40248	10µF 20% 63V
2137	4822 121 40606	22nF 20% 50V
2138	4822 124 21443	2,2µF 20% 50V
2143	4822 121 43104	33nF 10% 100V
2146	4822 121 40606	22nF 20% 50V
2153	4822 121 51399	47nF 10% 50V
2153	4822 121 42237	47nF 10% 63V
2160	4822 124 22263	220µF 20% 25V
2201	4822 121 42094	100nF 10% 63V
2215	4822 124 40244	2,2µF 20% 63V
2217	4822 122 30103	22nF 80% 63V
2220	4822 124 40433	47µF 20% 25V
2221	4822 124 40242	1µF 20% 63V
2615	4822 124 40435	10µF 20% 50V
2616	4822 124 22346	330µF 20% 35V
2617	4822 121 42094	100nF 10% 63V
2618	4822 122 33532	3n3 10% 50V
2619	5322 124 41468	1000µF 20% 40V
2620	4822 124 40242	1µF 20% 63V
2621	4822 121 51587	68nF 5% 50V
2622	4822 121 51244	330nF 5% 50V
2623	4822 121 41761	5,6nF 10% 400V
2624	4822 121 42094	100nF 10% 63V
2625	4822 122 33307	10nF 80% 50V

3003	4822 051 10759	75Ω 2% 0,25W
3005	4822 050 21802	1k8 1% 0,6W
3006	4822 050 21802	1k8 1% 0,6W
3007	4822 050 21802	1k8 1% 0,6W
3008	4822 050 21802	1k8 1% 0,6W
3009	4822 050 21802	1k8 1% 0,6W
3010	4822 050 22201	220Ω 1% 0,6W
3011	4822 116 52258	220k 5% 0,5W
3012	4822 116 52258	220k 5% 0,5W
3013	4822 116 52258	220k 5% 0,5W
3014	4822 116 52258	220k 5% 0,5W
3015	4822 116 52258	220k 5% 0,5W
3016	4822 050 27509	75Ω 1% 0,6W
3017	4822 050 27509	75Ω 1% 0,6W
3018	4822 050 27509	75Ω 1% 0,6W
3019	4822 050 22201	220Ω 1% 0,6W
3020	4822 116 52283	4k 7 5% 0,5W
3021	4822 116 52233	10k 5% 0,5W
3022	4822 116 52233	10k 5% 0,5W
3023	4822 116 52233	10k 5% 0,5W
3024	4822 116 52233	10k 5% 0,5W
3025	4822 116 52233	10k 5% 0,5W
3026	4822 116 52207	1k 2 5% 0,5W
3027	4822 116 52207	1k 2 5% 0,5W
3028	4822 116 52284	47k 5% 0,5W
3029	4822 051 10333	33k 2% 0,25W
3030	4822 116 52284	47k 5% 0,5W
3031	4822 116 52233	10k 5% 0,5W
3032	4822 116 52297	68k 5% 0,5W
3033	4822 116 52253	2k 5% 0,5W
3034	4822 116 52284	47k 5% 0,5W
3035	4822 116 52284	47k 5% 0,5W
3037	4822 050 21002	1k0 1% 0,6W
3038	4822 050 11002	1k 1% 0,4W
3041	4822 116 52289	3k 3 5% 0,5W
3042	4822 050 11002	1k 1% 0,4W
3044	4822 116 52231	820Ω 5% 0,5W
3045	4822 116 52226	560Ω 5% 0,5W
3047	4822 116 52222	390Ω 5% 0,5W
3048	4822 116 52251	18k 5% 0,5W
3049	4822 051 10333	33k 2% 0,25W
3052	4822 116 52258	220k 5% 0,5W
3053	4822 116 52258	220k 5% 0,5W
3054	4822 116 52258	220k 5% 0,5W
3055	4822 116 52258	220k 5% 0,5W
3056	4822 050 11002	1k 1% 0,4W
3057	4822 116 52283	4k 7 5% 0,5W
3058	4822 050 22201	220Ω 1% 0,6W
3059	4822 050 22201	220Ω 1% 0,6W
3060	4822 116 52199	68Ω 5% 0,5W
3061	4822 116 52231	820Ω 5% 0,5W
3062	4822 116 52226	560Ω 5% 0,5W
3063	4822 050 11002	1k 1% 0,4W
3064	4822 050 11002	1k 1% 0,4W
3065	4822 050 11002	1k 1% 0,4W
3068	4822 051 10333	33k 2% 0,25W
3069	4822 116 52303	8k 2 5% 0,5W
3070	4822 116 52233	10k 5% 0,5W
3072	4822 050 27509	75Ω 1% 0,6W
3081	4822 050 27509	75Ω 1% 0,6W
3083	4822 051 10333	33k 2% 0,25W
3084	4822 116 52303	8k 2 5% 0,5W
3085	4822 050 11002	1k 1% 0,4W
3088	4822 116 52233	10k 5% 0,5W
3090	4822 116 52233	10k 5% 0,5W
3092	4822 050 11002	1k 1% 0,4W
3094	4822 116 52266	3k 5% 0,5W
3095	4822 116 52225	510Ω 5% 0,5W
3096	4822 050 11002	1k 1% 0,4W
3097	4822 116 52222	390Ω 5% 0,5W
3098	4822 116 52222	390Ω 5% 0,5W
3100	4822 116 52233	10k 5% 0,5W
3101	4822 116 52269	3k 3 5% 0,5W
3102	4822 116 52224	470Ω 5% 0,5W
3103	4822 116 52207	1k2 5% 0,5W
3104	4822 116 52269	3k3 5% 0,5W
3105	4822 116 52269	3k3 5% 0,5W
3106	4822 116 52207	1k2 5% 0,5W
3108	4822 116 52207	1k2 5% 0,5W
3110	4822 116 52207	1k2 5% 0,5W
3111	4822 116 52207	1k2 5% 0,5W
3111	4822 116 52213	180Ω 5% 0,5W
3112	4822 116 52213	180Ω 5% 0,5W
3112	4822 116 52207	1k2 5% 0,5W
3113	4822 116 52207	1k2 5% 0,5W
3118	4822 050 11002	1k1% 0,4W
3124	4822 116 52244	15k 5% 0,5W
3125	4822 116 52244	15k 5% 0,5W
3126	4822 116 52258	220k 5% 0,5W
3128	4822 116 52258	220k 5% 0,5W
3129	4822 116 52254	20k 5% 0,5W
3130	4822 116 52254	20k 5% 0,5W
3135	4822 116 52283	4k7 5% 0,5W
3136	4822 116 81682	2M2 5% 0,5W
3137	4822 116 52277	39k 5% 0,5W
3145	4822 116 52234	100k 5% 0,5W
3146	4822 116 52257	22k 5% 0,5W
3147	4822 116 52276	3k9 5% 0,5W
3148	4822 100 11212	2k2 30% LIN
3160	4822 052 10151	150Ω 5% 0,33W
3161	4822 052 10151	150Ω 5% 0,33W
3162	4822 052 10151	150Ω 5% 0,33W
3163	4822 116 52253	2k 5% 0,5W
3164	4822 116 52245	150k 5% 0,5W
3164	4822 116 52234	100k 5% 0,5W
3164	4822 116 52269	3k3 5% 0,5W
3164	4822 116 52291	56k 5% 0,5W
3201	4822 116 52266	3k 5% 0,5W
3202	4822 116 52291	56k 5% 0,5W
3203	4822 116 52306	9k1 5% 0,5W
3204	4822 116 52267	30k 5% 0,5W
3205	4822 116 52297	68k 5% 0,5W
3210	4822 116 52284	47k 5% 0,5W
3211	4822 116 52249	1k8 5% 0,5W
3212	4822 050 11002	1k 1% 0,4W
3213	4822 116 52283	4k7 5% 0,5W
3214	4822 116 52283	4k7 5% 0,5W
3216	4822 116 52234	100k 5% 0,5W
3220	4822 052 10279	27Ω 5% 0,33W
3613	4822 116 52269	3k3 5% 0,5W
3614	4822 116 52207	1k2 5% 0,5W
3615	4822 116 52228	680Ω 5% 0,5W
3617	4822 052 10338	3,3Ω 5% 0,33W
3619	4822 116 52258	220k 5% 0,5W
3622	4822 116 52251	18k 5% 0,5W
3624	4822 116 52263	2k7 5% 0,5W

TXT Panel

T6	4822 265 40469	8p fem (->M2)
T7	4822 265 40471	8p fem (->M3)

Various

1801	4822 242 73552	13,875 000 MHz
1802	4822 242 71508	6,00 MHz

2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 5% 50V
2795	4822 122 31769	18pF 5% 50V
2796	4822 122 31769	18pF 5% 50V
2797	4822 122 31769	18pF 5% 50V
2800	4822 124 40178	100µF 20% 10V
2801	4822 122 32442	10nF 50V
2802	4822 122 31972	39pF 5% 50V
2803	4822 122 31972	39pF 5% 50V
2804	4822 122 31766	120pF 5% 50V
2805	4822 122 31766	120pF 5% 50V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 5% 50V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 10% 50V
2817	4822 122 32504	15pF 5% 50V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 5% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 32142	270pF 5% 63V
2822	4822 122 31765	100pF 5% 50V
2823	4822 122 31965	220pF 5% 63V
2824	4822 122 32891	68nF 10% 63V
2825	4822 124 41525	100µF 20% 25V
2826	4822 122 32504	15pF 5% 50V
2827	4822 122 32542	47nF 10% 63V
2028	4822 122 32542	47nF 10% 63V
2829	4822 124 41506	47µF 20% 16V
2830	4822 122 32542	47nF 10% 63V
2833	4822 124 41576	2,2µF 20% 50V
2845	4822 124 40178	100µF 20% 10V
2846	4822 124 41554	220µF 20% 10V
2849	4822 124 21212	15µF 20% 40V

3795	4822 051 10392	3k9 2% 0,25W
3796	4822 116 90536	120Ω 1% 1,8W
3797	4822 116 52178	10Ω 5% 0,5W
3798	4822 116 90536	120Ω 1% 1,8W
3800	4822 051 10103	10k 2% 0,25W
3801	4822 051 10105	1M 5% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3807	4822 051 10622	6k2 2% 0,25W
3808	4822 051 10103	10k 2% 0,25W
3809	4822 051 10132	1k3 2% 0,25W
3810	4822 051 10333	33k 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W
3812	4822 051 10332	3k3 2% 0,25W
3813	4822 051 10361	360Ω 2% 0,25W
3814	4822 050 11002	1k0 1% 0,4W
3815	4822 051 10152	1k5 2% 0,25W
3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10122	1k2 2% 0,25W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10332	3k3 2% 0,25W
3825	4822 051 10332	3k3 2% 0,25W
3826	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10829	82Ω 2% 0,25W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3843	4822 051 10122	1k2 2% 0,25W
3845	4822 052 10689	68Ω 5% 0,33W
3846	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3850	4822 051 20222	2k2 5% 0,1W
3852	4822 051 20222	2k2 5% 0,1W
3999	4822 051 10182	1k8 2% 0,25W
3999	4822 051 20222	2k2 5% 0,1W
3999	4822 051 10392	3k9 2% 0,25W

4xxx	jumper	

5800	4822 156 20966	47µH 10%
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60µH
5814	4822 157 53608	10µH 10%
5816	4822 157 52224	15µH 10%
5847	4822 157 51157	3,3µH 10%

6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6812	4822 130 80446	LL4148
6813	4822 130 81512	LLZ-C6V2
6814	4822 130 80446	LL4148
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1

7800	4822 209 62479	MA8846 1p/w196
7800	4822 209 30281	PCF84C81A/097
7800	4822 209 30279	PCF84C81A/096
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 73879	SAA5243P/E/M2
7820	4822 209 63974	SAA5243P.H
7820	4822 209 63975	SAA5243P.T
7830	4822 209 63645	SAA5231/V6
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858

1070 Vivo/Sound Module

5102	4822 152 20678	33µH 10%
5103	4822 157 60123	6,8µH 10%
5124	4822 157 63694	10,7 MHz
5125	4822 157 63693	5,5 MHz
5125	4822 156 21451	12,5µH 6%
5125	4822 157 63711	6µH
5619	4822 152 20549	47µH 7,5%
6003	4822 130 61219	BZX79-C10
6011	4822 130 61219	BZX79-C10
6012	4822 130 61219	BZX79-C10
6013	4822 130 61219	BZX79-C10
6016	4822 130 61219	BZX79-C10
6017	4822 130 61219	BZX79-C10
6018	4822 130 61219	BZX79-C10
6036	4822 130 61219	BZX79-C10
6041	4822 130 30621	1N4148
6047	4822 130 30621	1N4148
6048	4822 130 30621	1N4148
6069	4822 130 61219	BZX79-C10
6084	4822 130 61219	BZX79-C10
6103	4822 130 30621	1N4148
6104	4822 130 30621	1N4148
6105	4822 130 30621	1N4148
6107	4822 130 30621	1N4148
6126	5322 130 31684	BB809
6127	5322 130 31684	BB809
6128	5322 130 31684	BB809
6143	4822 130 30621	1N4148
6160	4822 130 34197	BZX79-C12
6161	4822 130 30621	1N4148
6201	4822 130 34197	BZX79-C12
6202	4822 130 34197	BZX79-C12
6203	4822 130 30621	1N4148
7010	4822 209 10263	HEF4052BP
7020	4822 130 40938	BC548
7021	4822 130 40938	BC548
7022	4822 130 40938	BC548
7023	4822 130 40938	BC548
7024	4822 130 40938	BC548
7030	4822 130 44198	BC548C
7042	4822 130 40941	BC558
7044	4822 130 40938	BC548
7055	4822 130 41448	BF324
7061	4822 130 40941	BC558
7063	4822 130 40938	BC548
7064	4822 130 40938	BC548
7070	4822 130 40938	BC548
7080	4822 130 40938	BC548
7085	4822 130 40938	BC548
7090	4822 130 40938	BC548
7092	4822 130 40938	BC548
7093	4822 130 40938	BC548
7101	4822 130 40938	BC548
7105	4822 209 70672	LM358N
7120	4822 209 62523	TBA120UB
7160	4822 130 41746	BD825
7201	4822 209 71703	TDA8442/N3
7210	4822 130 40938	BC548
7213	4822 130 40938	BC548
7620	4822 209 61758	TDA1013B/N1

1040 CRT Panel

P1	4822 265 30351	5p male (->M1)
P1	4822 267 40583	5p fem (->M1)
P2	4822 265 30378	4p male (->M7)
P2	4822 267 40597	4p fem (->M7)
P4	4822 265 30389	2p male (->aqua)
	4822 255 70254	holder valve
2104	4822 126 11968	22pF 5% 100V
2105	4822 126 11971	270pF 10% 50V
2110	4822 126 11969	2,7pF 0,25% 50V
2124	4822 126 11968	22pF 5% 100V
2125	4822 126 11971	270pF 10% 50V
2130	4822 126 11969	2,7pF 0,25% 50V
2144	4822 126 11968	22pF 5% 100V
2145	4822 126 11971	270pF 10% 50V
2150	4822 126 11969	2,7pF 0,25% 50V
2165	4822 124 40433	47µF 20% 25V
2178	4822 121 41689	100nF 10% 250V
2188	4822 121 41926	33nF 10% 630V
3100	4822 116 52269	3k3 5% 0,5W
3101	4822 116 52207	1k2 5% 0,5W
3103	4822 050 11002	1k 1% 0,4W
3104	4822 116 52224	470Ω 5% 0,5W
3106	4822 116 52243	1k5 5% 0,5W
3107	5322 100 11541	2K2 LIN
3109	4822 053 10183	18k 5%
3110	4822 116 52257	22k 5% 0,5W
3113	4822 116 52219	330Ω 5% 0,5W
3115	4822 052 10102	1k0 5% 0,33W
3117	4822 052 10102	1k0 5% 0,33W
3118	4822 111 91333	2k2 10%
3120	4822 116 52269	3k 3 5% 0,5W
3121	5322 100 11541	2K2 LIN
3124	4822 116 52224	470Ω 5% 0,5W
3126	4822 116 52243	1k 5 5% 0,5W
3127	5322 100 11541	2K2 LIN
3129	4822 053 10183	18k 5%
3130	4822 116 52257	22k 5% 0,5W
3133	4822 116 52219	330Ω 5% 0,5W
3135	4822 052 10102	1k0 5% 0,33W
3137	4822 052 10102	1k0 5% 0,33W
3138	4822 111 91333	2k2 10%
3140	4822 116 52269	3k 3 5% 0,5W
3141	5322 100 11541	2K2 LIN
3144	4822 116 52224	470Ω 5% 0,5W
3146	4822 116 52243	1k 5 5% 0,5W
3147	5322 100 11541	2K2 LIN
3149	4822 053 10183	18k 5%
3150	4822 116 52257	22k 5% 0,5W
3153	4822 116 52219	330Ω 5% 0,5W
3155	4822 052 10102	1k0 5% 0,33W
3157	4822 052 10102	1k0 5% 0,33W
3158	4822 111 91333	2k2 10%
3160	4822 050 11002	1k 1% 0,4W
3163	4822 116 52283	4k 7 5% 0,5W
3165	4822 116 52205	1k 1 5% 0,5W
3178	4822 052 10181	180Ω 5% 0,33W
3184	4822 111 91333	2k2 10%
3188	4822 111 91333	2k2 10%
5104	4822 152 20678	33µH 10%
5110	4822 157 52991	270µH 10%
5124	4822 152 20678	33µH 10%
5130	4822 157 52991	270µH 10%
5144	4822 152 20678	33µH 10%
5150	4822 157 52991	270µH 10%
5182	4822 158 10551	27µH 7,5%
5182	5322 157 52539	15 µH 7,5%
5183	4822 157 63698	33µH 7,5%
5183	4822 157 62577	22µH 7,5%
6106	4822 130 30621	1N4148
6115	4822 130 30842	BAV21
6126	4822 130 30621	1N4148
6135	4822 130 30842	BAV21
6146	4822 130 30621	1N4148
6155	4822 130 30842	BAV21
7110	4822 130 42607	BF483
7111	4822 130 44195	BF494
7115	4822 130 41782	BF422
7116	4822 130 41646	BF423
7130	4822 130 42607	BF483
7131	4822 130 44195	BF494
7135	4822 130 41782	BF422
7136	4822 130 41646	BF423
7150	4822 130 42607	BF483
7151	4822 130 44195	BF494
7155	4822 130 41782	BF422
7156	4822 130 41646	BF423
7160	4822 130 44256	BC557